





Protecting Your Data





Table of Contents

About Us – Company Profile	
➤ Online UPS	
Professional Series (1P/1P) - Tower	
Master Series (1P/1P) - Tower	5
Master Series (1P/1P) - 2-In-1 Rack/Tower	9
Master Series (3P/1P) - Tower	
Master Series (3P/1P) - RackMount	
Master Series (3P/3P) - Tower	
Power Series (3P/3P)	
Power Series (3P/3P) – PWR1000	
Power Series (3P/3P) – PWR7000	23
Line Interactive UPS	· · · · · · · · 25
PRO Series	
► Inverter UPS	26
IPS Series	26
Solar UPS	<i>2</i> 7
PDC Series- DC UPS	
PCC Series	28
PSI Hybrid Series	29
PSI On-Grid Series	30
PSI Off-Grid Series	31
Standalone Solar Power Station	32
PSS Series	33
➤ Software & Accessories	34
Annandiy	20

ABOUT US - COMPANY PROFILE

Fida International (S) Pte Ltd has been a provider of technologically innovative and user-friendly products manufactured under the brand name "PROLINK®" since 1991. With more than two decades of professional experience in the information communications sector, PROLINK is now renowned as a specialist in its field, especially in area of Backup UPS products.

Over the years, PROLiNK has built its presence through a strong foundation of technological leadership within the South Asian, South-east Asian and Middle Eastern regions and is continuing to build its presence worldwide. With its current network of sales offices in more than 20 countries, customers can be assured that PROLiNK is able to provide the right solutions to meet the needs of both home and business users within each geographical location both efficiently and effectively.

The company's quest for continuous improvement and quality assurance to its customers has earned us the ISO9001 quality certification since 1999. With its consistently strong commitment to quality, customers can be assured of they are getting true value - superior quality products at affordable prices.

Our Mission

Accentuate the best for the e-generation

PROLiNK® aspires to accentuate the best for the e-generation. With technology becoming an essential aspect of modern living, the e-generation concept has gradually become ingrained in our lives and digital literacy is becoming more and more commonplace.

PROLINK products are designed to make technology work for the e-generation. Created with the end-user in mind, our products are crafted to enhance performance whether you are at work or play – our products work harder, while you work smarter to achieve your desired results with less effort and better efficiency.

Providing value to our consumers – whether home or business users, remains a firm commitment of PROLINK. With its wide range of quality products, PROLINK makes it easy for home users to find user-friendly yet affordable solutions for their technological needs, while business users are assured of reliable and secure solutions for their network infrastructure.

Our Vision

Ideas, Innovation and Information

PROLINK® aims to be the key driving force behind technological changes and improvements in both developing and developed countries. With its strong focus on technology, our team sets high standards for itself in the areas of innovation, change and improvement so as to provide the next generation of users with products that are suitable for their technology advanced environments.

The small "i" in PROLINK represents ideas, innovation and information – three key pillars of growth that drive us towards achieving excellence in our field of expertise and challenges us to think beyond our usual boundaries.

Core Values

Secured Information Management

With more than two decades of professional experience in providing backup power solutions to our customers, we are able to support our customers with superior technological know-how and expertise, as well as advice on market trends. At the same time, we are also fully committed to protecting the privacy of our customers and to manage confidential information discreetly.

Innovative Design

Our products are carefully thought out to ensure that each item is designed to meet the needs of our customers. With the team's solid experience in the UPS market, customers can be certain that our designs are innovative yet functional, and suitable for each dynamic market that we have a presence in.

Quality Manufacturing

Strict and rigorous testing makes up a huge part of our quality control procedures. We ensure that every item meets our strict standards – from the individual components to the actual finished product.

Superior Service Standards

PROLINK is particular about its service standards. For customers, only the best service is permitted. We provide responsive service in all technical support and product matters, and special assistance with product design, technical and marketing issues upon request.

Total Quality Assurance System

Our products go through careful planning and checks at every stage of the production cycle - from the beginning stages of product design to the manufacturing and finally the actual delivery of the goods. This guarantees that our customers receive only the best quality goods – of high reliability and durability. Our total quality system has been audited and approved by globally recognized bodies.

Range of UPS

The wide range of our products gives you an infinite range of solutions:

- 1. Online UPS
- 2. Line Interactive UPS
- 3. Inverter UPS
- 4. Solar UPS

PROFESSIONAL SERIES (1P/1P) - TOWER



PRO901S/L

PRO902S/L

PRO903S/L

- True Double-Conversion Online UPS
- Wide input voltage range (110~300VAC)
- Input Power Factor correction 0.98
- Output Power Factor 0.80
- Generator compatible
- LCD User Interface
- RS-232 communication port or mini slot for USB / RS-232 / AS400 / SNMP communication
- Smart battery charger design for optimized battery performance
- Optional isolation transformer available

MODELS		PRO901 (S/L/SI/LI)	PRO902 (S/L/SI/LI)	PRO903 (S/L/SI/LI)	PRO906 (S/L/SI/LI)		
Canasity	Volt-Amp	1000 VA	2000 VA	3000 VA	6000 VA		
Capacity	Watt	800 W	1600 W	2400 W	4200 W		
Phase			Single Phase In /	Single Phase Out			
Isolation Transformer			Opt	onal			
INPUT							
Input AC Voltage		208	/220/230/240VAC or 110/115/120/127\	'AC	208/220/230/240VAC		
	Low Line Transfer	160/140	175/150/130/110VAC ±5% *1				
	Low Line Comeback	168/148	183/158/138/118VAC ±5% #1				
Voltage Range	Low Line Comeback (Auto Restart)		/AC ±5% or 84VAC ±5% (80%~ 100% L 8VAC ±5% or 74VAC ±5% (0%~ 80% Lo		180VAC ±5% (80%~ 100% Load) 155VAC ±5% (0%~ 80% Load)		
	High Line Transfer		300VAC ±5% or 150VAC ±5%		280VAC ±5%		
	High Line Comeback		290VAC ±5% or 145VAC ±5%		270VAC ±5%		
Frequency Range	g i i i i i i i i i i i i i i i i i i i			uto Sensing)			
Power Factor Correctio	n	≥ 0.		≥ 0.99	≥ 0.95		
OUTPUT				≡ 0.55	≡ 0.33		
Output AC Voltage			208/220/220/240\/AC	or 110/115/120/127VAC			
	(Detter Ade de)	. 1					
AC Voltage Regulation	The state of the s	±1		±3%			
Frequency Range	Synchronized Range			or 57~63Hz			
	Battery Mode			or 60Hz ±0.3Hz			
Current Crest Ratio			3				
Harmonic Distortion	Linear Load	≦3% THD	≦4% THD		3% THD		
Distortion	Non-Linear Load	≦6% THD	≦7% THD	≦	6% THD		
Transfor Time	AC Mode to Battery Mode		Ze	ro			
Transfer Time	Inverter to Bypass		4ms (T	ypical)			
Waveform (Battery Mo	de)	Pure Sinewave					
Power Factor		0.8					
EFFICIENCY			-				
AC Mode		88.5%	89.3%	87%	90%		
Battery Mode		83.7%	88.2%	85%	85%		
BATTERY		65.7 70	00.276	6576	8578		
DATTERT	Battery Type		12V9AH		12V10AH		
	Numbers			6	8		
Standard Model	Typical Recharge Time	2		to 90% capacity	0		
Standard Model	,,			A			
	Charging Current (max.)	27.0/06 : 10/		•	100 0/05 - 10/		
	Charging Voltage	27.4VDC ±1%	54.7VDC ±1%	82.1VDC ±1%	109.4VDC ±1%		
	Battery Type		, ,	n applications			
Long-Run Model	Numbers	2	4	6	8		
J	Charging Current (max.)	1A/5A	1A/2A/4A/8A	4A/8A	4A/8A, 10A (Optional)		
	Charging Voltage	27.4VDC ±1%	54.7VDC ±1%	82.1VDC ±1%	109.4VDC ±1%		
INDICATORS							
LCD Panel		UPS Sta	atus, Load Level, Battery Level, Input/Ou	tput Voltage, Discharge Timer, Fault C	onditions		
ALARM							
Battery Mode			Sounding ev	ery 4 seconds			
Low Battery			Sounding e	very seconds			
Overload			Sounding twice				
Fault				ly sounding			
PHYSICAL							
	Dimension (mm) D×W×H	400×146×205	397×145×220	421×190×318	426×190×318		
Standard Model	Net Weight (kgs)	9.3	17.2	28.8	35.3		
				26.6 421×190×318			
Long-Run Model	Dimension (mm) D×W×H	400×146×205	397×140×220		426×190×318		
	Net Weight (kgs)	4.8	8.9	13.5	14.3		
ENVIRONMENT							
Humidity				0~40°C (Non-Condensing)			
Noise Level			Less than 45dB @ 1 Meter		Less than 55dB @ 1 Meter		
Regulations			EN 62040-2:2006, EN 61000-3-2:2006+	A1:2009+A2:2009, EN 61000-3-3:200	3		
MANAGEMENT							
			upport Windows® 2000/2003/XP/Vista,				

APPLICATION









Small Computer L Network Net

Local Area Network (LAN)

rk-Stations

Server

REAR PANEL

FOR 1K MODEL ONLY

- Output receptacles
- 2 AC input
- Input circuit breaker
- External battery connection (only available for L model)
- S RS-232 communication port
- 6 Modem/Phone line/Network surge protection
- Fan





PRO901S

PRO901L

FOR 2K TO 6K MODEL

- Output receptacles
- 2 AC Input
- Input circuit breaker
- 4 Network/Fax/Modem Surge Protection
- 5 RS-232 communication port / SNMP intelligent slot
- 6 External battery connection (only available for L model)
- Output terminal
- Output circuit breaker
- 9 Fan





PRO903L

PRO903S





PRO906SI

PRO906LI

OPTION

PRO902S

- USB Port for communication.
- AS-400 Card for external alarm signal.
- SNMP Card for data communication via network connection
- Output Isolation Transformer
- External PDU & Maintenance Bypass Switch (suitable for UPS up to 3KVA only)



MASTER SERIES (1P/1P) - TOWER



- True Double-Conversion Online UPS
- Wide input voltage range (110~300VAC)
- Input Power Factor correction 0.99
- Output Power Factor 0.80
- Generator compatible
- LCD User Interface
- RS-232 communication port or mini slot for USB / RS-232 / AS400 / SNMP communication
- Smart battery charger design for optimized battery performance
- Optional isolation transformer available

MODELS		PRO801S/L/SI/LI	PRO8015S/L/SI/LI	PRO802S/L/SI/LI	PRO803S/L/SI/LI	PRO806S/L/SI/LI	PRO806C/CL/CI/CII	PRO810S/L/SI/LI	PRO810C/CL/CI/
MODELS	Volt-Amp	1000 VA	1500 VA	2000 VA	3000 VA	6000 VA	6000 VA	10000 VA	10000 VA
Capacity	Watt	800 W	1200 W	1600 W	2400 W	4800 W	4800 W	8000 W	8000 VA
Phase	watt	000 W	1200 W	1000 W		Single Phase Out	4600 W	8000 W	8000 vv
Isolation Transformer					Opti	ional			
INPUT									
	Low Line Transfer	160VAC ±5% or 80VAC ±5% @ 100% Load 110VAC ±5% or 50VAC ±5% @ 50% Load				176VAC ±3% 110VAC ±3%			
Voltage Range	Low Line Comeback	1	L75VAC ±5% or 85V	'AC ±5% @ 50% Load	i	176VAC±3%@100%Load 110VAC±3%@50%Load	186VAC@100%Load 120VAC@50%Load	176VAC±3%@100%Load 11.0VAC±3%@50%Load	186VAC@100%Loa 120VAC@50%Loa
	High Line Transfer		300VAC ±5%	or 150VAC ±5%			300VA	C ±3%	
	High Line Comeback		290VAC ±5%	or 145VAC ±5%			290VA	C ±3%	
Frequency Range	3			or 70Hz			46~54Hz c	r 56~64Hz	
Power Factor				Voltage (100% Load)			≥ 0.99 @ 3		
			= 0.55 @ Nominal	voltage (100% Load)			≡ 0.55 @ .	20070 2000	
OUTPUT		200	2/220/220/240/46	110 /115 /120 /127	'A.C		200 (220 (2	20/240\/AC	
Output Voltage		208		or 110/115/120/127V	AC		208/220/2		
AC Voltage Regulation (3%				.%	
Frequency Range	Synchronized Range			or 57~63Hz				r 56~64Hz	
. requeriey nurige	Battery Mode		50Hz ±0.25Hz	or 60Hz ±0.3Hz			50Hz ±0.1Hz c	r 60Hz ±0.1Hz	
Current Crest Ratio			3	3:1			3	1	
	Linear Load	≦ 3%	THD	≦ 4%	THD		≦ 3%	THD	
Harmonic Distortion	Non-linear Load		THD	≦ 7%			≦ 6%		
	AC Mode to Battery Mode	_ 0/0		ode: Zero	-		Line Mo		
Transfer Time								de: Zero	
	Inverter to Bypass		Line Mode.	4ms (Typical)	D C'		Line Mo	ue. Zero	
Waveform (Battery Mod	e)					newave			
Power Factor					0	.8			
EFFICIENCY									
AC Mode		85	5%	88	%	89%	90%	89%	90%
Battery Mode			8:	3%			88	1%	
ECO Mode					97	7%			
BATTERY									
DATTER	Battery Type	12V7AH	12V9AH	12V7AH	12V9AH	12V	7AH	12V	9АН
	Numbers of Battery	3 6			20	16 20			
Chandral Madel		,			,				
Standard Model	Typical Recharge Time			r to 90% Capacity		7 Hours Recover		9 Hours Recover	
	Cl : C . (A.L.)					1	A	1	A
	Charging Current (Max.)			IA .					240 0VDC
	Charging Current (Max.) Charging Voltage	41.0VD	OC ±1%	82.1VD	C ±1%	273.0VDC ±1%	218.4VDC ±1%	273.0VDC ±1%	
		41.0VD	OC ±1%		C ±1%	273.0VDC ±1% Depending or			Applications
Long-Run Model	Charging Voltage		OC ±1%	82.1VD					
	Charging Voltage Battery Type		DC ±1% Depending o	82.1VD n Applications		Depending or	Applications Depending on Applications	Depending or	n Applications Depending or
	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.)		OC ±1% Depending o	82.1VD n Applications	5	Depending or	Applications Depending on Applications	Depending or 18~20 A	Applications Depending o
Long-Run Model	Charging Voltage Battery Type Numbers of Battery	:	OC ±1% Depending o	82.1VD n Applications 6	5	Depending or	Depending on Applications Applications	Depending or 18~20 A	n Applications Depending or
Long-Run Model INDICATORS	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.)	:	DC ±1% Depending o B C ±1%	82.1VD n Applications 6 3A 82.1VD	C ±1%	Depending or 18~20	n Applications Depending on Applications 4 273.0VI	Depending or 18~20 A OC ±1%	Applications Depending o
Long-Run Model INDICATORS LCD Display	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.)	:	DC ±1% Depending o B C ±1%	82.1VD n Applications 6	C ±1%	Depending or 18~20	n Applications Depending on Applications 4 273.0VI	Depending or 18~20 A OC ±1%	Applications Depending o
Long-Run Model INDICATORS LCD Display ALARM	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.)	:	DC ±1% Depending o B C ±1%	82.1VD n Applications 6 3A 82.1VD	C ±1% tery Level, Input/Ou	Depending or 18~20 tput Voltage, Discha	n Applications Depending on Applications 4 273.0VI	Depending or 18~20 A OC ±1%	Applications Depending o
Long-Run Model INDICATORS LCD Display ALARM Battery Mode	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.)	:	DC ±1% Depending o B C ±1%	82.1VD n Applications 6 3A 82.1VD	C ±1% C tery Level, Input/Ou Sounding eve	Depending or 18~20 tput Voltage, Discha	n Applications Depending on Applications 4 273.0VI	Depending or 18~20 A OC ±1%	n Applications Depending or
Long-Run Model INDICATORS LCD Display ALARM	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.)	:	DC ±1% Depending o B C ±1%	82.1VD n Applications 6 3A 82.1VD	C ±1% tery Level, Input/Ou Sounding ev Sounding e	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second	n Applications Depending on Applications 4 273.0VI	Depending or 18~20 A OC ±1%	n Applications Depending o
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.)	:	DC ±1% Depending o B C ±1%	82.1VD n Applications 6 3A 82.1VD	C ±1% tery Level, Input/Ou Sounding ev Sounding e	Depending or 18~20 tput Voltage, Discha	n Applications Depending on Applications 4 273.0VI	Depending or 18~20 A OC ±1%	n Applications Depending o
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.)	:	DC ±1% Depending o B C ±1%	82.1VD n Applications 6 3A 82.1VD	C ±1% tery Level, Input/Ou Sounding eve Sounding twice	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second	n Applications Depending on Applications 4 273.0VI	Depending or 18~20 A OC ±1%	n Applications Depending o
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.)	:	DC ±1% Depending o B C ±1%	82.1VD n Applications 6 3A 82.1VD	C ±1% tery Level, Input/Ou Sounding eve Sounding twice	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second	n Applications Depending on Applications 4 273.0VI	Depending or 18~20 A OC ±1%	n Applications Depending o
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault PHYSICAL	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage	41.0VE	Depending of Depen	82.1VD n Applications 6 BA 82.1VD tatus, Load Level, Bat	C ±1% tery Level, Input/Ou Sounding eve Sounding twic Continuous	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second	n Applications Depending on Applications 4 273.0VI	Depending or 18~20 A DC ±1% ditions	Applications Depending of Applications
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault PHYSICAL	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage	41.0VE	Depending of Box 200	82.1VD n Applications 6 8A 82.1VD tatus, Load Level, Bat	C ±1% tery Level, Input/Ou Sounding eve Sounding twic Continuous	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second ily sounding 592×250×576	Applications Depending on Applications 4 273.0Vi rge Timer, Fault Con	Depending or 18~20 A OC ±1% ditions 592×250×576	Applications Depending o Applications
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault PHYSICAL	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs)	397×1-	Depending of Depen	82.1VD n Applications 6 8A 82.1VD tatus, Load Level, Bat 421×19 26	C ±1% Sounding eve Sounding eve Sounding twice Continuous 00×318 28	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second ily sounding 592×250×576 81	Applications Depending on Applications 4 273.0Vt	Depending or 18~20 A OC ±1% ditions 592×250×576 83	Applications Depending of Applications Applications 440×192×68
Long-Run Model INDICATORS LCD Display ALARM Battery Mode	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	397×1· 13 397×1·	Depending of Depen	82.1VD n Applications 6 8A 82.1VD tatus, Load Level, Bat 421×15 26 421×15	tery Level, Input/Ou Sounding eve Sounding wic Continuous 00×318 28 00×318	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second ily sounding 592×250×576 81 592×250×576	Applications Depending on Applications 4 273.0VI rge Timer, Fault Con 360×192×688 72 360×192×318	Depending or 18~20 A OC ±1% ditions 592×250×576 83 592×250×576	Applications Depending of Applications 440×192×68 82 440×192×31
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs)	397×1-	Depending of Depen	82.1VD n Applications 6 8A 82.1VD tatus, Load Level, Bat 421×19 26	C ±1% Sounding eve Sounding eve Sounding twice Continuous 00×318 28	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second ily sounding 592×250×576 81	Applications Depending on Applications 4 273.0Vt	Depending or 18~20 A OC ±1% ditions 592×250×576 83	Applications Depending of Applications Applications 440×192×68
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	397×1· 13 397×1·	Depending of Depen	82.1VD n Applications 6 8A 82.1VD tatus, Load Level, Bat 421×15 26 421×15 13	C ±1% tery Level, Input/Ou Sounding eve Sounding twice Continuous 90×318 28 90×318 13	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second ily sounding 592×250×576 81 592×250×576 25	Applications Depending on Applications 4 273.0VI rge Timer, Fault Con 360×192×688 72 360×192×318 21	Depending or 18~20 A OC ±1% ditions 592×250×576 83 592×250×576	Applications Depending of Applications Applications 440×192×68 82 440×192×31
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	397×1· 13 397×1·	Depending of Depen	82.1VD n Applications 6 8A 82.1VD tatus, Load Level, Bat 421×15 26 421×15 13	C ±1% tery Level, Input/Ou Sounding eve Sounding twice Continuous 90×318 28 90×318 13	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second ily sounding 592×250×576 81 592×250×576	Applications Depending on Applications 4 273.0VI rge Timer, Fault Con 360×192×688 72 360×192×318 21	Depending or 18~20 A OC ±1% ditions 592×250×576 83 592×250×576	Applications Depending of Applications Applications 440×192×68 82 440×192×31
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	397×1· 13 397×1·	Depending of Box 220	82.1VD n Applications 6 8A 82.1VD tatus, Load Level, Bat 421×15 26 421×15 13	C ±1% tery Level, Input/Ou Sounding eve Sounding twice Continuous 90×318 28 90×318 13	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second ily sounding 592×250×576 81 592×250×576 25	Applications Depending on Applications 4 273.0VI rge Timer, Fault Con 360×192×688 72 360×192×318 21	Depending or 18~20 A OC ±1% ditions 592×250×576 83 592×250×576	Applications Depending of Applications Applications 440×192×68 82 440×192×31 23
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity Noise Level	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	397×1· 13 397×1·	Depending of Box 220	82.1VD n Applications 6 BA 82.1VD tatus, Load Level, Bat 421×15 26 421×15 13 2dB @ 1 Meter	C ±1% Sounding even Sounding even Sounding twice Continuous 90×318 28 90×318 13 20~90% RH @ 0~40	Depending or 18~20 tput Voltage, Discha ery 4 seconds very second e every second ily sounding 592×250×576 81 592×250×576 25 °C (Non-condensing	Applications Depending on Applications 4 273.0Vi rge Timer, Fault Con 360×192×688 72 360×192×318 21 B @ 1 Meter	Depending or 18~20 A DC ±1% ditions 592×250×576 83 592×250×576 27	Applications Depending of Applications 440×192×68 82 440×192×31 23
Long-Run Model INDICATORS LCD Display ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity	Charging Voltage Battery Type Numbers of Battery Charging Current (Max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	397×1· 13 397×1·	Depending of Box 220	82.1VD n Applications 6 BA 82.1VD tatus, Load Level, Bat 421×15 26 421×15 13 2dB @ 1 Meter	C ±1% Sounding even Sounding even Sounding twice Continuous 90×318 28 90×318 13 20~90% RH @ 0~40	Depending or 18~20 tput Voltage, Dischalery 4 seconds very second et every second sty sounding 592×250×576 81 592×250×576 25 °C (Non-condensing Less than 55c	Applications Depending on Applications 4 273.0Vi rge Timer, Fault Con 360×192×688 72 360×192×318 21 B @ 1 Meter	Depending or 18~20 A DC ±1% ditions 592×250×576 83 592×250×576 27	Applications Depending of Applications Applications 440×192×68 82 440×192×31 23

APPLICATION









Small Computer Local Area Network Network (LAN)

REAR PANEL

FOR 1K TO 3K MODEL

- 1 Programmable outlets: connect to non-critical loads.
- 2 Output receptacles: connect to mission-critical loads.
- 3 AC input
- 4 Input circuit breaker
- 5 Network/Fax/Modem surge protection
- 6 Emergency power off function connector (EPO)
- 7 USB communication port
- 8 RS-232 communication port
- SNMP intelligent slot
- External battery connection (only available for L model)
- 11 Output terminal
- 12 Output circuit breaker
- Fan



PRO801S PRO8015S

PRO801L PRO8015L





BATTERY PACK

FOR 1K TO 3K MODEL



Capacity	1K/1.5K		2K/3K			
Battery Type	12V7AH	12V9AH	12V7AH	12V9AH	12V7AH	12V9AH
Battery Number	6 pcs	6 pcs	12 pcs	12 pcs	18 pcs	18 pcs
Dimension (DxWxH)	397×14	15×220	421×190×318		535×19	90×318
Net Weight (kgs)	18	20	36	40	55	61

REAR PANEL

FOR 6K & 10K MODEL

- RS-232 communication port
- 2 USB communication port
- 3 Emergency power off function connector (EPO connector)
- 4 Share current port (only available for parallel model)
- 5 Parallel port (only available for parallel model)
- 6 Intelligent slot
- Charger fan
- 8 Power stage fan
- Maintenance bypass switch
- 10 Input circuit breaker
- 1 Input/Output terminal
- 1 Output terminal 1
- 13 Output terminal 2
- External battery terminal (only available for Long-run model)
- 15 Utility input terminal
- 16 Output IEC Socket



PRO806S PRO810S PRO806L PRO810L

BATTERY PACK

FOR 6K & 10K MODEL



Capacity			6K/			
Battery Type	12V7AH	12V9AH	12V7AH	12V9AH	12V7AH	12V9AH
Battery Number	20 pcs	20 pcs	40 pcs	40 pcs	60 pcs	60 pcs
Dimension (DxWxH)	592×250×576		592×250×576		830×25	50×576
Net Weight (kgs)	64	72	109	125	166	190

OPTION

- AS-400 Card for external alarm signal.
- SNMP Card for data communication via network connection
- Output Isolation Transformer
- \bullet External PDU & Maintenance Bypass Switch (suitable for UPS up to 3KVA only)



MASTER SERIES (1P/1P) - TOWER

True double-conversion online UPS

A true double conversion UPS will provide clean, high level quality power to fully protect mission-critical devices such as sensitive networks, small computer centers, servers, telecom applications, as well as for industrial applications.

▶ Output power factor 0.8

Compared to the online UPSs in the current market, Master Series (1P/1P) provides better output power factor up to 0.8. It offers higher performance and efficiency for critical applications.

► Wide input voltage range (110 V -300 V)

Master Series (1P/1P) can still provide stable power to connected devices under unstable power environments.

Programmable power management outlets

With programmable power management outlets, users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to missioncritical devices by shutting down the non-critical devices.



Programmable Outlets (P1) - connect to non-critical devices

► 50/60 Hz Frequency Converter Mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

ECO mode operation for energy saving

Offers efficiency as high as 97% to cut energy usage & cost. UPS power application via static bypass, timely returning to online double conversion when the need arises.

► Emergency Power Off (EPO) Function

This feature can secure the personnel and equipment in case of fires or other emergencies.

➤ SNMP+USB+RS-232 multiple communications for 1-3K models

This feature allows either USB or RS-232 communication port to work with SNMP interface simultaneously.

Higher accuracy for output voltage

With advanced control firmware, Master Series (1P/1P) provides high accuracy within +/- 1% for output voltage. It can be applied to precious test & IT equipment.

Smart battery charger design to optimize battery performance

- Master Series (1P/1P) 1-3K is equipped with 2-stage charger design to guarantee battery discharge time.
 Besides, it will adjust charging voltage according to outside temperature. This features will extend the useful service life of batteries.
- Master Series (1P/1P) 6K and up models are equipped with 3-stage extendable charger for optimized battery performance. This feature extends the useful service life of batteries and optimizes battery recharge time. Besides, the extendable charger design can be stacked in numbers for large-capacity battery charging.

▶ DSP technology applied for 6K and up models

A DSP controller provides an improved and cost-effective solution with high performance.

Maintenance bypass available for 6K and up models Internal bypass assures continuous power to critical devices during UPS maintenance.

Optional hot standby mode and N+X parallel redundancy available for 6K and up models

For genuinely redundant power protection, Master Series (1P/1P) (6K and up models) can either be used in parallel operation with up to 3 units or hot standby mode. Slave UPS will back up the load in the event of critical component failure. It increases power safety and availability.

► Adjustable battery numbers for 6K and up models

Master Series (1P/1P) (6K and up models) can still normal operate well with only 18 or 19 internal batteries.

Built-in isolation transformer (Option)

With built-in isolation transformer, the UPS will offer full isolation and complete common mode noise rejection for connected precious equipment. It become an ideal power source with 100% protection against unexpected AC power problems.

MASTER SERIES (1P/1P) - 2-IN-1 RACK/TOWER



- True Double-Conversion Online UPS
- Rack or Tower design
- Wide input voltage range (110~300VAC)
- Input Power Factor correction 0.99
- Output Power Factor 0.90
- 50/60Hz frequency converter mode
- Hot-Swappable battery design
- Programmable power management outlets
- Emergency Power Off (EPO) function
- ECO Mode Operation for energy saving
- General Compatible
- Charger capacity expansion to 8A for long-run models
- SNMP+USB+RS232 multiple communications
- Smart battery charger design for optimized battery performance
- Selectable output voltage via LCD panel
- Accessories: External maintenance bypass switch * SNMP card

March Mar	MODELS			PRO801 (RS/RL)	PRO8015 (RS/RL)	PRO802 (RS/RL)	PRO803 (RS/RL)	PRO806 (RS/RL)	PRO810 (RS/RL)	
Mail		Volt-Amp	0	1000 VA	1500 VA	2000 VA	3000 VA	6000 VA	10000 VA	
Mail	Capacity			900 W	1350 W	1800 W	2700 W	5400 W	9000 W	
Part	capacity	Watt								
### Display Section S	Phase		9	000 11	1200 11			310011	3000 11	
Marting						Single Phase III / Single I	nase out (with ground)			
March	INPUT	Laurillaa	Torrestor	SOCIATION AND AND AND AND AND AND AND AND AND AN						
\[\frac{\text{biline}{							•			
Migh tile Created Mig	Voltage Range									
Page	,									
Pame		High Line	Comeback		140VAC ±5% o	or 290VAC ±5%		290VA	C ±3%	
Control Con	Frequency Range				40~7	70Hz		46~54Hz oı	56Hz~64Hz	
Math	Power Factor Correction				≥ 0.99 @ nominal	voltage (100%load)		≥0.99 @ :	L00% Load	
An Optionary Program	OUTPUT									
# Spetimeney Reage 1	Output Voltage				110/115/120/127VAC o	r 208/220/230/240VAC		208/220/2	30/240VAC	
# Spetimeney Reage 1	AC Voltage Regulation (Ba	ttery Mode	•)		±1	L%		±	1%	
Programme	,	-			47~53Hz o	or 57~63Hz		46~54Hz (or 56~64Hz	
Marrin	Frequency Range		-							
Manufacida	Current Crest Ratio									
Maminic Distortion Many Marker Tool Battery Mode Marker Tool Battery Too	Carrein Crest Natio	linearla	ad							
Transfer Time More to Bypass Parameter Note Parame	Harmonic Distortion									
Tansfer ling Inverter to Bypasis February Services February Services February Services February Services February Services All Modes Services Services <th cols<="" td=""><td></td><td></td><td></td><td></td><td>≥070</td><td></td><td></td><td>≥0%</td><td></td></th>	<td></td> <td></td> <td></td> <td></td> <td>≥070</td> <td></td> <td></td> <td>≥0%</td> <td></td>					≥070			≥0%	
Mary Horin (Batery Note	Transfer Time									
### Part		Inverter t	о вураss							
AC Mode						Pure Sii	newave			
Battery Mode	EFFICIENCY									
Satisfy Part Par	AC Mode			86% 88%			90%			
Satisfy Type 12 12 13 14 16 16 17 17 17 17 17 18 18 18	Battery Mode			83	%	88	88%			
Number Part	BATTERY									
Standard Mode Typical Recharge Time										
Charging Current (max) Charging Current (max) Charging Voltage 27.4VDC ±1% 41.1VDC ±1% 82.1VDC ±1% 273VDC ±				2			6		-	
Charging Voltage	Standard Model									
Battery Type										
Numbers 2 3 4 6 20 1 1 1 1 1 1 1 1 1			-	27.4VDC ±176	41.1VDC ±1%			2/3VL	C ±1%	
Charging Current (max)				2	3				20	
NDICATORS	Long-Run Model			-			· ·			
Note				27.4VDC ±1%			82.1VDC ±1%	273VD	C ±1%	
## Mark ## Ma	INDICATORS									
ALARM Battery Mode Sounding every seconds Sounding every sec	LCD Panel				UPS Status, Load Lev	vel. Battery Level, Input/Out	put Voltage, Discharge Tir	ner. Fault Conditions		
Battery Mode Sounding every seconds Low Battery Sounding severy seconds Overload Sounding twice very seconds Fault Sounding twice very seconds Fault Sounding twice very seconds PHYSICAL Whysical Management Bimension (mm) D×W×H 380×438×88 [2U] 480×438×88 [2U] Book 338×88 [2U] UPS Unit: 506×438×133 [3U] Battery Pack: 550 altery Pack: 550 altery Pack: 550 altery Pack: 560 a	ALARM						, and a supply of the supply o			
Low Battery Sounding severy seconds Overload Sounding twice very seconds Fault Continuous very seconds Fault Sounding twice very seconds Fault Continuous very seconds Fault Continuous very seconds Fault Continuous very seconds Fault Sounding twice very seconds Continuous very seconds Fault Sounding twice very seconds Continuous very seconds Low Sounding twice very se						Soundina eve	ery 4 seconds			
Fault Continuous sounding PHYSICAL Bimension (mm) D×W×H 380×438×88 [2U] 480×438×88 [2U] 480×438×88 [2U] 600×438×88 [2U] UPS Unit: 580×438×133 [3U] Battery Pack: 580 and 580 an										
PHYSICAL Standard Model Dimension (mm) D×W×H 380×438×88 [2U] 480×438×88 [2U] 600×438×88 [2U] UPS Unit: 580×438×133 [3U] Battery Pack: 590×438×133 [3U] Ba	Overload					Sounding twice	every seconds			
Standard Model Dimension (mm) D×W×H 380×438×88 [2U] 480×438×88 [2U] 480×438×88 [2U] 600×438×88 [2U] UPS Unit: 580×438×133 [3U] Battery Pack: 590×438×133	Fault					Continuous	ly sounding			
Standard Model Met Weight (kgs) 129 17.6 20.6 28 UPS Unit: 17 Battery Pack: 580 ×438×13 [BU] Bettery Pack: 580 Battery Pack: 580 Battery Pack: 580 Battery Pack: 580 Battery Pack: 580 A88 10PS Unit: 20 Battery Pack: 580 Battery Pack: 580 Battery Pack: 580 Battery Pack: 580 A88 129 17.6 20.6 28 UPS Unit: 17 Battery Pack: 580 Battery Pack: 580 Battery Pack: 580 A88 129 Battery Pack: 580 Battery Pack:	PHYSICAL									
Net Weight (kgs) 129 17.6 20.6 28 UPS Unit: 17 Battery Pack: 57 Battery Pack: 63 Bat		Dimensio	on (mm) D×W×H	380×438×88 [2U]	480×438×88 [2U]	480×438×88 [2U]	600×438×88 [2U]			
Long-Run Model Dimension (mm) D×W×H Net Weight (kgs) 380×438×88 [2U] 480×438×88 [2U] 600×438×88 [2U] 580×438×133 [3U] 668×438×133 [3U] 668×438×133 [3U] 7 20 ENVIRONMENT Humidity U-90% Relative Humidity @ 0~40°C (Non-Condensing) U-90%	Standard Model	Net Wei	ght (kgs)	12.9	17.6	20.6	28			
Long-Run Model Net Weight (kgs) 8.6 10.7 11.3 13.8 17 20 ENVIRONMENT Humidity 20-90% Relative Humidity @ 0~40°C (Non-Condensing)		Dimension	on (mm) DxWxH	380×438×88 [2U]	480×438×88 [2LII	480×438×88 [2U]	600×438×88 [2LII	The state of the s		
ENVIRONMENT Humidity 20-90% Relative Humidity @ 0~40°C (Non-Condensing) Noise Level Less than 50dB @ 1 Meter Regulations EN 62040-1:2008, EN 62040-2:2006, EN 61000-4-2:2009 MANAGEMENT Smart RS232 / USB Support Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix and MAC	Long-Run Model									
Humidity20-90% Relative Humidity @ 0~40°C (Non-Condensing)Noise LevelLess than 50dB @ 1 MeterRegulationsEN 62040-1:2008, EN 62040-2:2006, EN 61000-4-2:2009MANAGEMENTSmart RS232 / USBSupport Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix and MAC	ENVIRONMENT		5 . 5-7							
Noise Level Less than 50dB @ 1 Meter Regulations EN 62040-1:2008, EN 62040-2:2006, EN 61000-4-2:2009 MANAGEMENT Smart RS232 / USB Support Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix and MAC					2	0-90% Relative Humidity @	0~40°C (Non-Condensing	a)		
Regulations EN 62040-1:2008, EN 62040-2:2006, EN 61000-4-2:2009 MANAGEMENT Support Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix and MAC	-							<i>y</i> ,		
MANAGEMENT Smart RS232 / USB Support Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix and MAC					-			9		
Smart RS232 / USB Support Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix and MAC						02040 1.2000, EN 02040	2.2300, 214 01000-4-2.200	-		
					Command Miller of	owe® 2000/2002/VBA/5-+-	2009 Windows® 7 Li	Univ and MAC		
#1: Based on load percentage 100%~80%/ 80%~70%/ 70%~60%/ 60%~0%.	3111dTL K3232 / USB							Unix and IVIAC		











Small Computer Network

Network (LAN)

Work-Stations

REAR PANEL

- Programmable outlets: Connect to non-critical loads.
- Output receptacles: Connect to mission-critical loads.
- AC input
- 4 Input circuit breaker
- Setwork/Fax/Modem surge protection
- 6 Emergency power off function connector (EPO)
- USB communication port
- 8 RS-232 communication port
- SNMP intelligent slot
- 10 External battery connector (only available for long-run models)
- Input terminal
- 12 Fan
- 13 Parallel port (only available for parallel model)
- External maintenance by-pass switch connection
- 15 Output Terminal
- 16 Ground



PRO806RS/RL PRO810RS/RL



PRO801RS/PRO8015RS/PRO802RS



PRO801RL/PRO8015RL/PRO802RL



PRO803RS



PRO803RL

BATTERY PACK



Capacity	1K	1.5K	2K	3K	6K	10K
Battery Type		12V	12V7AH	12V9AH		
Battery Number	8 pcs	6 pcs	8 pcs	12 pcs	20	pcs
Dimension (DxWxH)		480×438×88		600×438×88	580×43	38×133
Net Weight (kgs)	31.1	29.1	31.1	43.3	57	63

OPTION

- AS-400 Card for external alarm signal.
- SNMP Card for data communication via network connection
- MODBUS Card for communication
- Universal Rackmount Slider for installation in rack cabinets
- External PDU & Maintenance Bypass Switch (suitable for UPS up to 3KVA only)





► True double-conversion online UPS

A true double conversion UPS will provide clean, high level quality power to fully protect mission-critical devices such as sensitive networks, small computer centers, servers, telecom applications, as well as for industrial applications.

User-friendly and easy-shift LCD display

The front panel digital display can be easily shifted through LCD setting to suit the installation format, vertically stand or flat wall mount.





Rack display

Tower display

Rack/Tower design

Master (1P/1P) - 2-in-1 Rack/Tower Series is designed in true 2U universal-mount case. It can be easily installed as floor-standing tower or in 19-inch rack-mount bracket.



19" Rack-Mounting



Floor-Standing Tower

Higher output crest radio perfect for generator and compressor

Compared to general online UPS, Master (1P/1P) - 2-in-1 Rack/Tower Series provide higher current crest ratio as 5:1. It can support not only precious IT equipment, but also compressors and motor-type devices.

Output voltage regulation < 1%</p>

Master (1P/1P) - 2-in-1 Rack/Tower Series offers better output voltage regulation (+/-1%), which ensures higher compatibility with even the most sensitive power supplies.

Output power factor 0.9

Master (1P/1P) - 2-in-1 Rack/Tower Series is a high-density UPS with output power factor 0.9 to provide higher performance and efficiency to critical applications.

Programmable power management outlets

With programmable power management outlets, users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to mission critical devices by shutting down the non-critical devices.



Programmable Outlets (P1)
 connect to non-critical devices

► ECO and advanced ECO mode for energy saving

It allows UPS to operate in high efficiency up to 97%in energy saving ECO mode and even up to 98%. In this operation mode, load is supplied by the mains. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems.

► Emergency Power Off Function (EPO)

This feature can secure the personnel and equipment in case of fires or other emergencies.

► Hot-swappable battery design

This design ensures clean and uninterruptible power to protected equipment during battery replacement.





Long-run models available

To provide longer backup time, we also offer long-run models. If additional runtime is required, matching external battery units is available.

MASTER SERIES (3P/1P) - TOWER



- True Double-Conversion Online UPS
- DSP technology guarantees high performance
- Output Power Factor 0.80
- Input Power Factor Correction 0.99
- Wide input voltage range
- Active power factor correction in all phases
- Build-in phase auto aapt function simplifies wire installation
- 50/60Hz frequency converter mode
- Programmable power management outlets
- Emergency Power Off (EPO) function
- ECO Mode Operation for energy saving
- Charger capacity expansion to 8A for long-run models
- SNMP+USB+RS232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Maintenance bypass available
- Optional N+X parallel redundancy
- Optional isolation transformer available

		PRO83110S	PRO83110 (L/LI)	PRO83115 (S/L/LI)	PRO83120S	PRO83120 (L/LI)		
c :	Volt-Amp	100	00 VA	15000 VA	200	000 VA		
Capacity	Watt	80	00 W	12000 W	16	000 W		
Phase				3 Phase In / 1 Phase Out				
Isolation Transformer				Optional				
INPUT								
	Low Line Transfer		176VAC (Phase Voltage) @ 100% Load 110VAC (Phase Voltage) @ 50% Load					
Voltage Benge	Low Line Comeback	186VAC (Phase Voltage) @ 100% Load 120VAC (Phase Voltage) @ 50% Load						
Voltage Range	High Line Transfer			5VAC (Phase Voltage) @ 100% Lo 0VAC (Phase Voltage) @ 50% Lo				
	High Line Comeback			5VAC (Phase Voltage) @ 100% Lo 0VAC (Phase Voltage) @ 50% Lo				
Frequency Range				45~54Hz or 56~64Hz				
Power Factor Correction				≥ 0.99 @ 100% Load				
OUTPUT								
Output AC Voltage				208/220/230/240VAC				
AC Voltage Regulation (Bat	tery Mode)			±1%				
	Synchronized Range			46~54Hz or 56~64Hz				
Frequency Range	Battery Mode			50Hz ±0.1Hz or 60Hz ±0.1Hz				
Current Crest Ratio	,			3:1				
	Linear Load			≤2% THD				
Harmonic Distortion	Non-Linear Load	≦5% THD	≦6% THD	<u>≡</u> 270 111D ≤5% 1	THD	≦7% THD		
	AC Mode to Battery Mode	=570 1110	2070 1115	Zero	••=	= / / / III / I		
Transfer Time	Inverter to Bypass	+		Zero				
Waveform (Battery Mode)	inverter to bypass	Zero Pure Sinewave						
Power Factor				0.8				
EFFICIENCY								
AC Mode		89%	85%	899		87%		
Battery Mode		86%	83%	88%	87%	83%		
BATTERY								
	Battery Type			12V9AH				
				20 v 2 ctrings (18-2	Opcs adjustable)			
	Numbers	20 (18-20	adjustable)		opes adjustable)			
Standard Model	Numbers Typical Recharge Time		9 hours recove	r to 90%capacity		NΑ		
Standard Model						NA		
Standard Model	Typical Recharge Time		9 hours recove	r to 90%capacity		NA NA		
Standard Model	Typical Recharge Time Charging Current (max.)		9 hours recove 1A 13.65DC ±1	rr to 90%capacity 2A % per Battery		NA		
	Typical Recharge Time Charging Current (max.) Charging Voltage		9 hours recove 1A 13.65DC ±1	er to 90%capacity		NA		
Standard Model Long-Run Model	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type		9 hours recove 1A 13.65DC ±1	rr to 90%capacity 2A % per Battery		NA NA		
	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.)		9 hours recove 1A 13.65DC ±1 Depend	rr to 90%capacity 2A % per Battery	atteries.	NA		
	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers		9 hours recove 1A 13.65DC ±1 Depend	r to 90%capacity 2A % per Battery ing on the capacity of external b	atteries.	NA		
Long-Run Model INDICATORS	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.)		9 hours recove 1A 13.65DC ±1 Depend	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery	atteries. 8A			
Long-Run Model INDICATORS LCD Panel	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.)		9 hours recove 1A 13.65DC ±1 Depend	r to 90%capacity 2A % per Battery ing on the capacity of external b	atteries. 8A			
Long-Run Model INDICATORS LCD Panel ALARM	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.)		9 hours recove 1A 13.65DC ±1 Depend	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis	atteries. 8A			
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.)		9 hours recove 1A 13.65DC ±1 Depend	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds	atteries. 8A			
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.)		9 hours recove 1A 13.65DC ±1 Depend	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds	atteries. 8A			
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.)		9 hours recove 1A 13.65DC ±1 Depend	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Sounding twice every seconds	atteries. 8A			
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.)		9 hours recove 1A 13.65DC ±1 Depend	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds	atteries. 8A			
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage		9 hours recove 1A 13.65DC ±1 Depend 4A JPS Status, Load Level, Battery	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Sounding twice every seconds Continuously sounding	atteries. 8A charge Timer, Fault Conditi			
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage	592×250×576	9 hours recove 1A 13.65DC ±1 Depend 4A JPS Status, Load Level, Battery	rt to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Sounding twice every seconds Continuously sounding	atteries. 8A charge Timer, Fault Conditi			
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage	592×250×576 83	9 hours recove 1A 13.65DC ±1 Depend 4A UPS Status, Load Level, Battery 592×250×826 144	rt to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Continuously sounding 815×256	atteries. 8A charge Timer, Fault Conditi	ions		
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	592×250×576 83 592×250×576	9 hours recove 1A 13.65DC ±1 Depend 4A JPS Status, Load Level, Battery 592×250×826 144 592×250×826	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Sounding twice every seconds Continuously sounding 815×25(166 592×25(atteries. 8A charge Timer, Fault Conditi 0)×826 4 0)×826	NA 815×250×826		
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage	592×250×576 83	9 hours recove 1A 13.65DC ±1 Depend 4A UPS Status, Load Level, Battery 592×250×826 144	rt to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Continuously sounding 815×256	atteries. 8A charge Timer, Fault Conditi 0)×826 4 0)×826	ions		
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	592×250×576 83 592×250×576	9 hours recove 1A 13.65DC ±1 Depend 4A JPS Status, Load Level, Battery 592×250×826 144 592×250×826	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Sounding twice every seconds Continuously sounding 815×25(166 592×25(atteries. 8A charge Timer, Fault Conditi 0)×826 4 0)×826	NA 815×250×826		
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	592×250×576 83 592×250×576	9 hours recove 1A 13.65DC ±1 Depend 4A JPS Status, Load Level, Battery 592×250×826 144 592×250×826 91	r to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Sounding twice every seconds Continuously sounding 815×25(166 592×25(atteries. 8A charge Timer, Fault Conditi 0>×826 1 1×826	NA 815×250×826		
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	592×250×576 83 592×250×576	9 hours recove 1A 13.65DC ±1 Depend 4A JPS Status, Load Level, Battery 592×250×826 144 592×250×826 91	rt to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Continuously sounding 815×256 166 592×250 37 tive Humidity @ 0~40°C (Non-C	atteries. 8A charge Timer, Fault Conditi 0>×826 1 1×826	NA 815×250×826 144		
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	592×250×576 83 592×250×576	9 hours recove 1A 13.65DC ±1 Depend 4A JPS Status, Load Level, Battery 592×250×826 144 592×250×826 91 0-95% Rela	rt to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Continuously sounding 815×256 166 592×250 37 tive Humidity @ 0~40°C (Non-C	atteries. 8A charge Timer, Fault Conditi 0>×826 1 1×826	NA 815×250×826 144		
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity Noise Level	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	592×250×576 83 592×250×576	9 hours recove 1A 13.65DC ±1 Depend 4A UPS Status, Load Level, Battery 592×250×826 144 592×250×826 91 0-95% Rela Less than 58dB	rt to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Continuously sounding 815×25(16- 592×25(37 tive Humidity @ 0~40°C (Non-C@ 1 Meter	atteries. 8A charge Timer, Fault Conditi 0)×826 1 0)×826 ondensing)	NA 815×250×826 144		
Long-Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity Noise Level Protection	Typical Recharge Time Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current (max.) Charging Voltage Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	592×250×576 83 592×250×576	9 hours recove 1A 13.65DC ±1 Depend 4A UPS Status, Load Level, Battery 592×250×826 144 592×250×826 91 0-95% Rela Less than 58dB	rt to 90%capacity 2A % per Battery ing on the capacity of external b 13.65DC ±1% per Battery Level, Input/Output Voltage, Dis Sounding every 4 seconds Sounding every seconds Sounding twice every seconds Continuously sounding 815×250 16- 592×251 37 tive Humidity @ 0~40°C (Non-C @ 1 Meter IP20	atteries. 8A charge Timer, Fault Conditi 0)×826 1 0)×826 ondensing)	NA 815×250×826		

APPLICATION







Data Centre



ctro-Medical Storage
Device PLCS



lecommunication Emergency
Devices Alarm Devices



cy ices

E-Business

E-Business (Server Farms, ISP/ASP/POP)

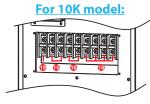
REAR PANEL

- 1 RS-232 communication port
- USB communication port
- 3 Emergency power off function connector (EPO connector)
- 4 Share current port (only available for parallel model)
- 5 Parallel port (only available for parallel model)
- 6 Intelligent slot
- Charger fan
- 8 Power stage fan
- Maintenance bypass switch
- 10 Input circuit breaker
- 11 Output circuit breaker for receptacles
- 12 Output receptacles: connect to mission-critical loads.
- 13 Input/Output terminal
- External battery connector (only available for 10KL)
- 15 Output terminal 1
- 16 Output terminal 2
- **17** External battery terminal (only available for Long-run model)
- 18 Utility input terminal
- 19 Non-isolated Neutral terminal
- 20 Grounding terminal



PRO83110S

PRO83110L











PRO83115S PRO83120S



PRO83115L PRO83120L

OPTION

- AS-400 Card for external alarm signal.
- SNMP Card for data communication via network connection
- MODBUS Card for communication
- Output Isolation Transformer





MASTER SERIES (3P/1P) - RACKMOUNT



- True double-conversion
- DSP technology guarantees high performance
- Output Power Factor 0.8Wide input voltage range
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- Eco mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- Charger capacity expansion to 8A for long-run models
 SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Optional N+X parallel redundancy

ALARM Battery Mode Sounding every 4 seconds Low Battery Sounding every seconds Overload Sounding twice every seconds Fault Continuously sounding PHYSICAL Standard Model Dimension (mm) D×W×H UPS Unit: 668 x 438 x 133 (3U) UPS Unit: 668 x 438 x 226 (6U) 2 x Battery Pack: 580 x 438 x 133 (3U) UPS Unit: 580 x 438 x 133 (3U) Net Weight (kgs) UPS Unit: 23 UPS Unit: 38 Battery Pack: 2 x 63 Battery Pack: 2 x 63 Battery Pack: 2 x 63 Battery Pack: 2 x 63	MODELS		PRO83110 (RS/RL)	PRO83120 (RS/RL)			
Protect Pro	Canacity	Volt-Amp	10000 VA	20000 VA			
Neutron	Capacity	Watt	8000 W	16000 W			
Vottage Bange Low Line Transfer 1379ACP Phase Voltaged ±1% 09 100% Load Vottage Bange Low Line Comeback 1389ACP Phase Voltaged ±1% 09 100% Load High Line Transfer 1309ACP Phase Voltaged ±1% 09 100% Load Proguency Pange 400 548 Load 2309ACP Phase Voltaged ±1% 09 100% Load Proguency Pange 400 548 Load 2309ACP Phase Voltaged ±1% 09 100% Load Proper Fator 400 548 Load 2309ACP Phase Voltaged ±1% 09 100% Load TOTAL	Phase	•	3 Phase In /	1 Phase Out			
Notage Range	INPUT						
Month Contraction 1900 Unit Contraction 1900		Low Line Transfer					
Perguency Amp	Voltage Range	Low Line Comeback					
Figuing		0	· ·	9 .			
Power Factor	Frequency Range	, ,					
Triple							
Outpook AC Voltage Repulsion (Battery Mode) 1.18	THDi						
Outpook AC Voltage Repulsion (Battery Mode) 1.18	OUTPUT		-				
AC Votage Regulation (Battery Mode) 13% Frequency Range Settery Mode 45-54te 20-11te or 60Hz ± 0.01te Current Crest Ratio 10-11 Linear Load 32% THD Hammonic Distortion 10-12 Linear Load 25% THD Hammonic Distortion 25% THD 150 Linear Load AC Mode to Battery Mode 25% THD Waveform (Battery Mode) 75 Control Power Tactor 70 Setter Mode 75 Control AC Mode 85% THD 85% Battery Mode 85% 87% KA Mode 85% 87% 87% KA Entrew Teach 85% 87% 87% Battery Type 85% 90 Pour recover to 90% capacity 90 pour secover to 90% capacity Charging Current (max) 13 Set y 115 per battery 12 Set y 115 per battery Long-Run Model 81 Set y 179e 90 per secover to 90% capacity 44 Act a			208/220/23	30/240VAC			
Frequency Range Synchronized Range 46-54bt ≠ 5-64bt Current Crest Ratio 38 Battery Mode 38 SH ± 0.1bt ≠ 0.5bt ± 0.1bt ± 0.2bt Current Crest Ratio 1 Linear Load 25° THD Tonnet Time AC Mode to Battery Mode 25° THD Waveform (Battery Mode) 9 The Simeware Pure Simeware Pu	, ,	erv Mode)					
Frequency Range Battery Mode SOH ± e0.1Hz or 60Ht ± e0.1Hz							
Current Crest Ratio Image: Load 1 2 % Hit Double 1 Mit Double 1 Mi	Frequency Range						
Hamonic Distortion Linear Load 32% TrD Transfer Time AC Mode to Battery Mode [netter to Spiass] Zero Waveform (Battery Mode [netter to Spiass] Tempter Time (Battery Mode [netter to Spiass] Fower Factor	Current Crest Ratio	, , , , , , , , , , , , , , , , , , , ,					
Harmonic Distortion Non-tinear Load \$5% HD Transfer Time AC Mode to Battery Mode! Pure Sinew— Power Factor — Proves Factor — Provision — Provisio		Linear Load					
Transfer imP	Harmonic Distortion						
Transfer imP							
Naving (Transfer Time						
Fexication (Waveform (Battery Mode)	,,,					
Kerkick V Ko Mode 88 % 87 % Battery Mode 86 % 87 % Battery Type Sundard Model Battery Type 20pcs (18-20pcs adjustable) 20pcs × 2 strings (18-20pcs adjustable) Changing Current (max) 1 Ammeter Long-Run Model Editery Type Depending on the cap="to external batteries. Mombers Changing Voltage 1 Ammeter Ammeter LOg Panel Sunding current (max) 2 Ammeter			0.	8			
AC Mode 89 (text of the parties) Battery Mode 8 (text of the parties) Battery Type 1 (text of the parties) At Munders 20pcs (18-20pcs adjustable) 20pcs x 2 strings (18-20pcs adjustable) Standard Model 4 (text of the parties) At Typical Recharge Time 20pcs (18-20pcs adjustable) 4 (text of the parties) 4 (text of the pa							
Battery Mode 88 /** Battery Type 88 /** Battery Type 120 /** 120 /** 120 /** 120 /** 120 /** 120 /** 120 /** 120 /** 120 /** 120 /**			89	1%			
Battery Type							
Standard Model Mumbers 20pcs (18-20pcs adjustable) 20pcs × 2 strings (18-20pcs adjustable) 20pcs × 2 st	· · · · · · · · · · · · · · · · · · ·		33.0	37.70			
Numbers		Battery Type	12V	9AH			
Standard Model Typical Recharge Time (Charging Current (max)) 9 hours recover to 90%capacity Charging Current (max) 1.4 Charging Voltage 1.3659 ±1% per battery Long-Run Model Battery Type Depending on the capacity of external batteries. Numbers 4.A Charging Voltage 2A 4A INDICATORS LEC Panel UPS Status, Load Level, Battery Level, Input/Output Voltage, Discharge Timer, Fault Conditions ALARIM Sounding every seconds Coverload Sounding twice overy seconds FAVISCAL Continuous vonding PHYSICAL UPS Unit: 668 x 438 x 133 (3U) UPS Unit: 668 x 438 x 226 (6U) Congram Model Dimension (mm) D×W×H Battery Pack: 530 x 438 x 133 (3U) UPS Unit: 38 Congram Model Dimension (mm) D×W×H 668 x 438 x 133 (3U) UPS Unit: 38 Battery Pack: 58 Battery Pack: 63 Battery Pack: 26 (6U) Congram Model Dimension (mm) D×W×H 668 x 438 x 133 (3U) UPS Unit: 668 x 438 x 226 (6U) <td rows<="" td=""><td></td><td></td><td>20pcs (18-20pcs adjustable)</td><td>20pcs × 2 strings (18-20pcs adjustable)</td></td>	<td></td> <td></td> <td>20pcs (18-20pcs adjustable)</td> <td>20pcs × 2 strings (18-20pcs adjustable)</td>			20pcs (18-20pcs adjustable)	20pcs × 2 strings (18-20pcs adjustable)		
Ending Fourmet (max.) Image: Markey Fourmet (max.) Act of Enging Voltage In June 13.65V ±1% probattery Long-Run Model Battery Type Depending on the capacity of external batteries. Charging Current (max.) A A A Charging Current (max.) A A A Charging Current (max.) A A Charging Current (max.) A A Charging Current (max.) A A A Charging Current (max.) A A Charging Current (max.) <th col<="" td=""><td>Standard Model</td><td>Typical Recharge Time</td><td></td><td></td></th>	<td>Standard Model</td> <td>Typical Recharge Time</td> <td></td> <td></td>	Standard Model	Typical Recharge Time				
Charging Voltage Batter Type Aunament Long-Run Model Batter Type Depending on the capative of external batteries. Long-Run Model Charging Current (max.) 2A 4A Charging Voltage DUPS Status, Load Level, Battery Level, Input/Out try Voltage, Discharge Timer, Fault Conditions LOP Panel Sounding very seconds Sounding twice yer seconds Cow Battery Cow Battery Sounding twice yer seconds Continuous Yers seconds Coverload Sounding twice yer seconds Continuous Yers seconds Continuous Yers seconds Continuous Yers seconds Sounding twice yers seconds Continuous Y							
Battery Type Depending on the capacity of external batteries. Numbers Depending on the capacity of external batteries. Charging Current (max) 2A 4A Charging Voltage DUPS Status, Load Level, Battery Level, Input/Output Voltage, Discharge Timer, Fault Conditions ALARM Battery Mode Sounding every 4 seconds Low Battery Sounding every 4 seconds Overload Sounding every 4 seconds Fault Sounding every 4 seconds Sounding			13.65V ±1%	per battery			
Numbers Depending on the capacity of external batteries. Long-Run Model Numbers 2A 4A Charging Voltage Charging Voltage UPS Status, Load Level, Battery Level, Input/Output Voltage, Discharge Timer, Fault Conditions ALARM Sattery Mode Sounding very seconds Low Battery Sounding twice very seconds Coverload Sounding twice very seconds Fault Dimension (mmn) D×W×H UPS Unit: 668 × 438 × 133 (3U) UPS Unit: 668 × 438 × 226 (6U) PHYSICAL UPS Unit: 668 × 438 × 133 (3U) UPS Unit: 688 × 438 × 133 (3U) UPS Unit: 38 UPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) UPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) UPS Unit: 38 Battery Pack: 2 x 63		5 5 5					
Charging Current (max) 2A 4A Charging Voltage 2A 4A INDICATORS LCD Panel UPS Status, Load Level, Battery Level, Input/Out Voltage, Discharge Timer, Fault Conditions ALARM Battery Mode Sounding very seconds Low Battery Sounding twicz very seconds Coverload Sounding twicz very seconds Fault Continuous vounding PHYSICAL UPS Unit : 668 x 438 x 133 (3U) UPS Unit : 668 x 438 x 226 (6U) Standard Model Dimension (mm) DxWxH Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) Long-Run Model Dimension (mm) DxWxH 668 x 438 x 223 (6U) 2 x Battery Pack : 2x 63 Battery Pack : 680 x 438 x 233 (3U) 2 x Battery Pack : 2x 63 Battery Pack : 2x 63 Long-Run Model Dimension (mm) DxWxH 668 x 438 x 232 (6U) 3 8 Long-Run Model Dimension (mm) DxWxH 668 x 438 x 232 (6U) 3 8 Long-Run Model Dimension (mm) DxWxH 668 x 4		Numbers	Depending on the capac	city of external batteries.			
NDICATORS	Long-Run Model	Charging Current (max.)	2A	4A			
MANAGEMENT Facility Mathematical Content of the content of			13.65V ±1%	per battery			
LCD Panel UPS Status, Load Level, Battery Level, Input/Out Voltage, Discharge Timer, Fault Conditions ALARM Battery Mode Sounding every seconds Low Battery Sounding twice very seconds Coverload Sounding twice very seconds Fault Continuous vounding PHYSICAL PHYSICAL UPS Unit : 668 x 438 x 133 (3U) UPS Unit : 668 x 438 x 226 (6U) Battery Pack : 580 x 438 x 133 (3U) UPS Unit : 38 Battery Pack : 580 x 438 x 133 (3U) UPS Unit : 38 Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133	INDICATORS			r · · · · · · ·			
ALARM Battery Mode Sounding every seconds Low Battery Sounding every seconds Overload Sounding every seconds Fault Sounding twice every seconds Fault Continuously sounding PHYSICAL ***********************************	LCD Panel		UPS Status, Load Level, Battery Level, Input/Out	tput Voltage, Discharge Timer, Fault Conditions			
Battery Mode Sounding evry seconds Low Battery Sounding twice very seconds Overload To sounding twice very seconds Fault Continuous vounding PHYSICAL Standard Model Dimension (mm) D×W×H UPS Unit: 668 x 438 x 133 (3U) UPS Unit: 668 x 438 x 226 (6U) Standard Model Net Weight (kgs) UPS Unit: 23 UPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U) 2 x Battery Pack: 580 x 438 x 133 (3U			in the state of th	,			
Low Battery Sounding every seconds Overload Sounding twice very seconds Fault Continuous sounding PHYSICAL Standard Model Dimension (mm) D×W×H UPS Unit: 668 x 438 x 133 (3U) UPS Unit: 668 x 438 x 226 (6U) Standard Model Net Weight (kgs) UPS Unit: 23 UPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) UPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) UPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) DIPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) DIPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) DIPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) DIPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) DIPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) DIPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) DIPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) DIPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) DIPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U)			Soundina eve	ery 4 seconds			
Coverload Sounding twice very seconds Fault Continuous sounding PHYSICAL UPS Unit: 668 x 438 x 133 (3U) UPS Unit: 668 x 438 x 226 (6U) Standard Model Dimension (mm) D×W×H UPS Unit: 23 UPS Unit: 38 Battery Pack: 580 x 438 x 133 (3U) UPS Unit: 38 Battery Pack: 2 x 63 Battery Pack			-				
Fault Continuous Journaling PHYSICAL Standard Model Dimension (mm) D×W×H UPS Unit : 668 x 438 x 133 (3U) UPS Unit : 668 x 438 x 226 (6U) A Dimension (mm) D×W×H UPS Unit : 23 UPS Unit : 38 Battery Pack : 580 x 438 x 133 (3U) 2 x Battery Pack : 580 x 438 x 133 (3U) 1 UPS Unit : 38 Battery Pack : 263 Battery Pack : 2 x 63 Battery Pack : 2 x 63 <td></td> <td></td> <td></td> <td></td>							
PHYSICAL Standard Model Dimension (mm) D×W×H UPS Unit : 668 x 438 x 133 (3U) (3V) (3 x Battery Pack : 580 x 438 x 133 (3U) (3V) (3 x Battery Pack : 580 x 438 x 133 (3U) (3V) (3 x Battery Pack : 580 x 438 x 133 (3U) (3V) (3 x Battery Pack : 580 x 438 x 133 (3U) (3V) (3V) (3V) (3V) (3V) (3V) (3V) (3V			-	<u> </u>			
Standard Model Dimension (mm) D×W×H UPS Unit: 668 x 438 x 133 (3U) (3 x Battery Pack: 580 x 438 x 133 (3U) (- Continued				
Met Weight (kgs) UPS Unit: 23 Battery Pack: 63 Battery Pack: 2 K 64 K		Dimension (mm) D×W×H					
Long-Run Model Net Weight (kgs) 23 38 ENVIRONMENT Humidity 0-95% Relative Humidity @ 0~40°C (Non-Condensing) Noise Level Less than 58dB @ 1 Meter Less than 60dB @ 1 Meter Regulations EN 62040-2:2006, EN61000-2-2:2002, EN 61000-4 MANAGEMENT	Standard Model		Battery Pack : 580 x 438 x 133 (30)	= = =, . = = = = (= = ,			
ENVIRONMENT Humidity 0-95% Relative Humidity 0-40°C (Non-Condensing) Noise Level Less than 58dB @ 1 Meter Less than 60dB @ 1 Meter Regulations EN 62040-2:2006, EN61000-2-2:2002, EN 61000-4 MANAGEMENT		Net Weight (kgs)	UPS Unit : 23	UPS Unit : 38			
Noise Level Less than 58dB @ 1 Meter Less than 60dB @ 1 Meter Regulations EN 62040-2:2006, EN61000-2-2:2002, EN 61000-4 MANAGEMENT	Long-Run Model	Dimension (mm) D×W×H	UPS Unit : 23 Battery Pack : 63 668×438×133	UPS Unit : 38 Battery Pack : 2 x 63 668×438×226 (6U)			
Noise Level Less than 58dB @ 1 Meter Less than 60dB @ 1 Meter Regulations EN 62040-2:2006, EN61000-2-2:2002, EN 61000-4 MANAGEMENT	-	Dimension (mm) D×W×H	UPS Unit : 23 Battery Pack : 63 668×438×133	UPS Unit : 38 Battery Pack : 2 x 63 668×438×226 (6U)			
Regulations EN 62040-2:2006, EN61000-2-2:2002, EN 61000-4 MANAGEMENT	ENVIRONMENT	Dimension (mm) D×W×H	UPS Unit : 23 Battery Pack : 63 668×438×133 23	UPS Unit : 38 Battery Pack : 2 x 63 668×438×226 (6U) 38			
MANAGEMENT	ENVIRONMENT Humidity	Dimension (mm) D×W×H	UPS Unit : 23 Battery Pack : 63 668×438×133 23 0-95% Relative Humidity @	UPS Unit : 38 Battery Pack : 2 x 63 668×438×226 (6U) 38 0~40°C (Non-Condensing)			
	ENVIRONMENT Humidity Noise Level	Dimension (mm) D×W×H	UPS Unit : 23 Battery Pack : 63 668×438×133 23 0-95% Relative Humidity @ Less than 58dB @ 1 Meter	UPS Unit : 38 Battery Pack : 2 x 63 668×438×226 (6U) 38 0~40°C (Non-Condensing) Less than 60dB @ 1 Meter			
	ENVIRONMENT Humidity Noise Level Regulations	Dimension (mm) D×W×H	UPS Unit : 23 Battery Pack : 63 668×438×133 23 0-95% Relative Humidity @ Less than 58dB @ 1 Meter	UPS Unit : 38 Battery Pack : 2 x 63 668×438×226 (6U) 38 0~40°C (Non-Condensing) Less than 60dB @ 1 Meter			

APPLICATION











Emergency Alarm Devices Devices

Local Area Network (LAN)

Data Centre

19" Rack Mount

Storage PLCS

REAR PANEL

- RS-232 communication port
- USB communication port
- 3 Emergency power off function connector (EPO connector)
- 4 Parallel port (only available for parallel model)
- 5 Intelligent slot
- 6 Fan
- External maintenance by-pass switch connection
- 8 Input circuit breaker
- Input/Output terminal
- 10 Output terminal
- 11 Battery terminal
- 12 Input terminal



PRO83110RS/RL



PRO83120RS/RL

OPTION

- AS-400 Card for external alarm signal.
- SNMP Card for data communication via network connection
- MODBUS Card for communication
- Universal Rackmount Slider for installation in rack cabinets

MASTER SERIES (3P/3P) - TOWER



- True double-conversion
- DSP technology guarantees high performance
- Output Power Factor 0.8Wide input voltage range
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- Eco mode operation for energy saving (ECO)
- Accepts dual power inputs
 Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers
- Maintenance bypass available
- Optional N+X parallel redundancy
 Optional isolation transformer offers full isolation and complete common mode noise

MODELS		PRO83310 (S/L/LI)	PRO83320 (S/L/LI)			
Committee	Volt-Amp	10000 VA	20000 VA			
Capacity	Watt	8000 W	16000 W			
Phase		3 Phase In / 3	Phase Out			
Isolation Transformer		Optio	nal			
INPUT						
	Low Line Transfer	176VAC (Phase Voltag 110VAC (Phase Voltag				
Voltage Range	Low Line Comeback	186VAC (Phase Voltage 120VAC (Phase Voltag				
	High Line Transfer	300VAC (Phase				
	High Line Comeback	290VAC (Phase				
Frequency Range	3	46~54Hz or				
Power Factor		≧ 0.99 @ 1	00% Load			
THDi		< 6% @ 10				
OUTPUT						
Output Voltage		3 × 400v	(3Ph+N)			
AC Voltage Regulation (Bat	tery Mode)	±1°				
	Synchronized Range	46~54Hz or				
Frequency Range	Battery Mode	50Hz ±0.1Hz or				
Current Crest Ratio	,	3:1 (N				
	Linear Load	≤2%				
Harmonic Distortion	Non-Linear Load	≦5%°				
	AC Mode to Battery Mode	Zer				
Transfer Time	Inverter to Bypass	Zer				
Waveform (Battery Mode)	7,11	Pure Sin				
Power Factor		0.8				
EFFICIENCY						
AC Mode		899	%			
Battery Mode		86%	87%			
BATTERY		****				
	Battery Type	12V9	AH			
	Numbers	20pcs (18-20pcs adjustable)	20pcs × 2 strings (18-20pcs adjustable)			
Standard Model	Typical Recharge Time	9 hours recover				
	Charging Current (max.)	1A	2A			
	Charging Voltage	13.65DC ±1%				
	Battery Type					
	Numbers	Depending on the capaci	ity of external batteries.			
Long-Run Model	Charging Current (max.)	4A	8A			
	Charging Voltage	13.65DC ±1%				
INDICATORS		15.0550 1170				
	3 3 3		,			
LCD Panel		LIPS Status Load Level Rattery Level Input/Out				
LCD Panel		UPS Status, Load Level, Battery Level, Input/Out				
ALARM			put Voltage, Discharge Timer, Fault Conditions			
ALARM Battery Mode		Sounding eve	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds			
ALARM Battery Mode Low Battery		Sounding eve Sounding eve	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds			
ALARM Battery Mode Low Battery Overload		Sounding eve Sounding eve Sounding twice	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds			
ALARM Battery Mode Low Battery Overload Fault		Sounding eve Sounding eve	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds			
ALARM Battery Mode Low Battery Overload		Sounding eve Sounding eve Sounding twice Continuously	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds y sounding			
ALARM Battery Mode Low Battery Overload Fault	Dimension (mm) D×W×H	Sounding eve Sounding eve Sounding twice Continuously 592×250×576	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds y sounding 815×250×826			
ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model	Dimension (mm) D×W×H Net Weight (kgs)	Sounding eve Sounding eve Sounding twice Continuously 592×250×576 83	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds y sounding 815×250×826 164			
ALARM Battery Mode Low Battery Overload Fault PHYSICAL	Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	Sounding eve Sounding twice Continuousl 592×250×576 83 592×250×576	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds y sounding 815×250×826 164 592×250×576			
ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model	Dimension (mm) D×W×H Net Weight (kgs)	Sounding eve Sounding eve Sounding twice Continuously 592×250×576 83	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds y sounding 815×250×826 164			
ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT	Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	Sounding eve Sounding eve Sounding twice Continuously 592×250×576 83 592×250×576 28	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ary seconds every seconds y sounding 815×250×826 164 592×250×576 40			
ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity	Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	Sounding eve Sounding eve Sounding twice Continuously 592×250×576 83 592×250×576 28 0-95% Relative Humidity @	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds every seconds y sounding 815×250×826 164 592×250×576 40 0~40°C (Non-Condensing)			
ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity Noise Level	Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	Sounding eve Sounding eve Sounding twice Continuously 592×250×576 83 592×250×576 28 0-95% Relative Humidity @ Less than 58dB @ 1 Meter	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds y sounding 815×250×826 164 592×250×576 40 0~40°C (Non-Condensing) Less than 60dB @ 1 Meter			
ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity Noise Level Protection	Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	Sounding eve Sounding twice Sounding twice Continuously 592×250×576 83 592×250×576 28 0-95% Relative Humidity @ Less than 58dB @ 1 Meter	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds y sounding 815×250×826 164 592×250×576 40 0~40°C (Non-Condensing) Less than 60dB @ 1 Meter 0			
ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity Noise Level Protection Regulations	Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	Sounding eve Sounding eve Sounding twice Continuously 592×250×576 83 592×250×576 28 0-95% Relative Humidity @ Less than 58dB @ 1 Meter	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds y sounding 815×250×826 164 592×250×576 40 0~40*C (Non-Condensing) Less than 60dB @ 1 Meter 0			
ALARM Battery Mode Low Battery Overload Fault PHYSICAL Standard Model Long-Run Model ENVIRONMENT Humidity Noise Level Protection	Dimension (mm) D×W×H Net Weight (kgs) Dimension (mm) D×W×H	Sounding eve Sounding twice Sounding twice Continuously 592×250×576 83 592×250×576 28 0-95% Relative Humidity @ Less than 58dB @ 1 Meter	put Voltage, Discharge Timer, Fault Conditions ry 4 seconds ery seconds every seconds y sounding 815×250×826 164 592×250×576 40 0~40°C (Non-Condensing) Less than 60dB @ 1 Meter 0 10-2-2:2002, EN 61000-4			

APPLICATION







Device









Alarm Devices Devices

E-Business (Server Farms, ISP/ASP/POP)

REAR PANEL

- RS-232 communication port
- USB communication port
- Emergency power off function connector (EPO connector)
- 4 Share current port (only available for parallel model)
- Parallel port (only available for parallel model)
- 6 Intelligent slot
- Charger fan
- 8 Power stage fan
- Maintenance bypass switch
- 1 Input circuit breaker 1
- 1 Input circuit breaker 2
- 12 Input/Output terminal
- 13 Output terminal
- External battery terminal (only available for Long-run model)
- 1 Utility input terminal 1
- 16 Utility input terminal 2





OPTION

- AS-400 Card for external alarm signal.
- SNMP Card for data communication via network connection
- MODBUS Card for communication
- Output Isolation Transformer





POWER SERIES (3P/3P)



- Online double conversion technology with DSP control
- Advanced control with Adaptive Feed Forward Cancellation (AFC) technology for very low harmonic distortion
- Very low input current distortion (THDi < 1%)
- Input power factor 0.99 at 10%load
- Output efficiency up to 95%
- Space-saving compact design
- Front access makes maintenance and replacement easily
- Highly flexibility in single phase / three-phase set-ups
- Control designed to withstand all kinds of loads
- Variety of communication options available
- Over 60%materials recyclable
- Optional N+X parallel redundancy
- Remaining backup time calculation

MODELS		PRO73315 (S/SI)	PRO73320 (S/SI)	PRO73330 (S/SI)	PRO73340 (S/SI)	PRO73360 (S/SI)	PRO73380 (S/SI)		
Canacity	Volt-Amp	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA		
Capacity	Watt	12KW	16KW	24KW	32KW	48KW	64KW		
Output Power Factor				0.	8				
Phase			3 Phase In / 3 Phase Out						
Isolation Transformer				Opti	onal				
INPUT									
Nominal Voltage				3×400V (3Ph + N)				
Acceptable Voltage Rar	nge			+15% (or -20%				
Frequency				50/60H	Iz ±5%				
Total Harmonic Distorti	ion (THDi)	<1.5%@ 100% Load							
Current Limitation				High Overload: PFC Limi	t (discharging batteries)				
Power Factor				1.	0				
INVERTER									
Nominal Voltage				3×400V (3Ph + N)				
Precision			Statio	nary: ±1% Transitory: ±2%	(Load Variations 100%-0%	-100%)			
Frequency				50/60Hz Sync	hronised ±4%				
Maximum Synchronisat	tion Speed			±1F	łz/s				
Waveform				Pure Si	newave				
Total Harmonic	Linear Load			< 0	.5%				
Distortion (THDv)	Non-Linear Load			< 1	5%				
Phase Displacement	Balanced Load			120°	±1%				
Filase Displacement	Imbalanced Load 50%			120°	±2%				
Dynamic Recovery Time	e			10ms. @ 98%of	the static value				
Admissible Overload				125%for 10min.,	150%for 60sec.				
Admissible Crest Factor	r	3.	4:1		3.	2:1			
Admissible Power Facto	or			0.1 inductive to	0.1 capacitive				
Imbalance Output Voltag	ge @ 100%Unbalanced Load			<:	L%				
Current Limit				High Overload, Short-ci	rcuit: RMS Voltage Limit				
STATIC BYPASS									
Туре				Solid	State				
Voltage				3×400V (3Ph + N)				
Frequency				50/6	0Hz				
Activation Criterion				Microproces	ssor Control				
Transfer Time				Ze	ro				
Admissible Overload				400%fo					
Transfer to Bypass				Immediate, for ove					
Retransfer				Automatic aft	er alarm clear				
MANUAL BYPASS (MA	AINTENANCE)								
Туре				Without In					
Voltage				3×400V (3Ph + N)				
Frequency				50/6	0Hz				
Overall Efficiency (Line	Mode)	90.5%	91.0%	92.0%	92.5%	93.05%	94.0%		
ENVIRONMENT									
Humidity				0-95% Relative Humidity @					
Protection				IP.					
Regulations			Е	N 62040-2:2006, EN 61000-2	-2:2002, EN61000-4-2,3,4,5	,6,8			
PHYSICAL									
Dimension (mm) D×W			50×1100			50×1320	1		
Net Weight (Without B			20	19		200	300		
Build-in Batteries Type		12V 7AH	12V 7.2AH	12V 12AH	12V 18AH	NA	NA		
Net Weight (With Built-	-in Batteries) (kgs)	250	250	53	30	NA	NA		

► The Most Versatile Solution for Power Protection

Power Series, applied with state-of-the-art PWM-transformerless technology, can easily adapt to all kinds of diverse and complicated loads, such as the non-linear systems (IT systems), strongly inductive or capacitive loads, discharge lamps, and induction motors. Ranging from 15K-80KVA, Power Series is designed in terms of criteria of maximum efficiency and energy savings with highly compact format. It makes installation and operation easily and eco-environmentally. Each unit also has a wide range of communication possibilities and a large variety of options to fill out customers' diverse inquiries. To facilitate expansion easily, this unit can be set up in parallel-redundant systems without any need for additional hardware in the near future

Online double conversion technology with DSP control

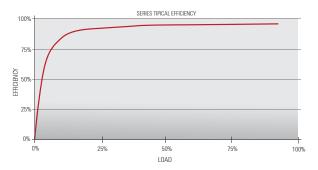
Power Series is applied online double conversion technology to effectively insulate against network disturbances and enable higher load uptime. A Digital Signal Processor (DSP) control provides an improved solution with high performance.

Advanced control with Adaptive Feed Forward Cancellation (AFC) technology for very low harmonic distortion

By cancelling input current and output voltage harmonics, the harmful effects of harmonic injection into the power network is eliminated and it will enhance load integrity.

► Output efficiency up to 95%

Applied with DSP controller and the forth generation IGBT transistors, the UPS can achieve high efficiency of up to 95%. It will save consumed energy due to lower heat losses and make a longer lifespan for the critical components of the unit.

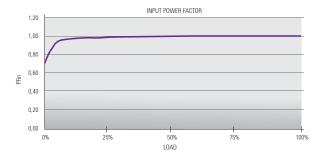


► Very low input current distortion (THDi < 1%)

AFC cells are used to achieve extremely low distortion values. Low input current distortion rat THDi < 1%at full load and also THDi < 5%with very small load (10%of load). This will avoid the distortion of the electrical network upstream of the UPS, resulting in savings from the optimal use of the cables and protection devices in the electrical network.

Input power factor 0.99 at 10%load

Lower power losses would result in reduced consumption, lower operation and maintenance costs.



Space-saving compact design

The use of transformerless technology allows a considerable reduction of the weight and volume of the units.

Front access makes maintenance and replacement easily

An important consideration has been given to allow generous access to the unit's electronic cards and power components. All the boards are accessible by front panel for easily maintenance and replacement.



► Highly flexibility in single phase/three-phase set-ups

The UPS is a unit with high flexibility in adapting inputs and outputs, and may easily be set up depending on the requirements of the facility.

- ► Three-phase input / Three-phase output (III/III)
- ► Three-phase input / Single phase output (III/I)
- ► Single phase input / Single phase output (I/I)
- ► Single phase input / Three-phase output (I/III)

Variety of communications and options available

The UPS has provided the following standard communication selections:

- ► Relay interface
- ▶ RS-232/485 port
- ▶ 1×SNMP slot
- ► Modbus RTU / SEC protocol
- ▶ 2×connectors for parallel connection

Control designed to withstand all kinds of loads

In Power Series, the control is designed to be able to withstand all kinds of loads: resistive, capacitive, non-linear, discharge lamps, induction motors, speed drivers, etc. It makes the UPS tremendously versatile and flexible in supplying power to different types of electronics. To make it simple to adapt the UPS for different environment, there are a large number of parameters that can be programmed locally or remotely.

Over 60%materials recyclable

The UPS uses more than 60% recyclable materials for being more respectful of the environment.



Remaining backup time calculation

By using powerful algorithms, an estimated remaining backup time can be calculated and help users for further arrangement in the event of a prolonged power outage.





PPLICATION







Data



Electro-Medical Device



PLCS



Telecommunication



Emergency



E-Business (Server Farms, ISP/ASP/POP)





POWER SERIES (3P/3P) - PWR1000



- Optimization Topology of power supply systems
- Sharing battery in parallel mode
- Free setting of charging current
- Intelligent monitoring function
- Small and medium-sized distribution system
- Maintenance bypass
- Multi-function UPS
- EPO function
- Three phase in, three phases out
- Digital control
- 19 inch standard cabinet and 5 inch LCD screen
- Modularization design (each module is 15KVA)
- Max power density in UPS Field
- N + X parallel redundancy
- Flexibility of parallel redundancy setting
- Parallel redundancy function of control systems

MODELS		15-120KVA/12-96W		
Conneity	Volt-Amp	15~120KVA		
Capacity	Watt	12~96KW		
Phase		3-Phase In / 3-Phase Out		
Isolation Transformer		NA		
INPUT				
Connection		3 Phases, 4 Wires + GND		
Voltage Range		240~520VAC		
Frequency Range		40∼70Hz		
Power Factor		> 0.99		
Bypass Voltage Range		380VAC ±15%		
OUTPUT				
Connection		3 Phases, 4 Wires + GND		
Rated Voltage		380VAC ±2%		
		Same as Input (AC mode), when AC frequency over		
Frequency		Step ±8%, output frequency 50×(1±0.5%)Hz		
		50×(1±0.5%)Hz (Battery Mode)		
Power Factor		0.8		
		110% < Load < 130%, after 10mins, transfer to bypass		
Overload Capability		130% < Load < 150%, after 1mins, transfer to bypass		
		Load > 150%, only 0.5secs, transfer to bypass		
Nominal External Batter	ry Voltage	±240VDC (every group has forty batteries in series) Connection, fetch out midline among them		
Single Module Power		15KVA / 12KW		
Output Power		15KVA×Modules / 12KW×Modules		
Generator Compatible		Yes		
Communication Interface	ce	RS232, RS485, Intelligent Slot		
ENVIRONMENT				
Noise Level		<60dB		
Temperature		0°C~40°C		
Humidiy		0%~ 93% (Non-Condensing)		
Storage Temperature		-25°C~55°C		
PHYSICAL				
Not Weight (legs)	RP Series UPS Modules	31		
Net Weight (kgs)	RP Series UPS Rack	250		
Dimension (mm)	RP Series UPS Modules	493×709×132		
D×W×H				

APPLICATION



Local Area Network (LAN)



Data Centre



ctro-Medical Storage
Device PLCS



Telecommunication Devices



Emergency Alarm Devices



E-Business (Server Farms, ISP/ASP/POP)

REAR PANEL

- 1 LCD
- 2 User Interface
- 3 15KVA Module
- 4 Optional PDU
- 5 Front Door
- 6 Input Breaker
- 7 Maintenance Breaker
- 8 Output Breaker
- Oircuit & Wiring
- 10 Terminal Block
- Rear Door

Front Panel



Rear Panel



OPTION

- SNMP Card for data communication via network connection
- Remote monitoring LCD

POWER SERIES (3P/3P) - PWR7000



- Advanced IGBT rectifier with low THDi and high PF
- Wide input voltage range and frequency tolerance
- Load bus synchronization (LBS) function
- Flexibility of configurable battery quantity
- Front accessible module design for ease of maintenance
- Low audible noise and low output voltage THD
- Parallel redundancy
- ECO mode
- Back-feed protection
- Cold start
- LCD and LED user interface with audible alarm function
- Surge, short circuit and overload protection

MODELS		PWR7020	PWR7030	PWR7040	PWR7060		
Capacity	Volt-Amp	20KVA	30KVA	40KVA	60KVA		
Сараспу	Watt	16KW	24KW	32KW	48KW		
Phase			3-Phase In /	3-Phase Out			
Isolation Transformer			N	A			
INPUT							
Voltage Range			208~478	3 ±5VAC			
Frequency Range			46~54Hz ±0.5Hz o	r 56~64Hz ±0.5Hz			
Total Harmonic Distort	tion (THDi)		< 3	3%			
Power Factor			> 0	.99			
OUTPUT							
Voltage			380/40	0/415V			
Frequency			50/60Hz	: ±0.5Hz			
Waveform			Sine	wave			
Current Crest Ratio			3:	1			
Total Harmonic	Linear Load		< 1	1%			
Distortion (THD)	Non-Linear Load		< !	5%			
			110%for	60mins			
Overload Capability		125%for 10mins					
		150%for 1min					
BATTERY							
Туре		Sealed lead acid maintenance free					
Charging Current		15A Max.					
Configurable Battery		32/34/36/38/40					
BYPASS							
Туре		Static bypass and manual maintenance bypass					
Input Phase		3 phase 4 wire and ground					
Input Voltage Range		208~478V ±5V					
Overload Capacity		< 125%keep normal					
		125%~170%for 10mins					
SYSTEM							
Remote Signaling		Dry Contact					
Communication Interfa	ace	RS232 / RS485 / RJ11 / SNMP					
Running Temperature		0~40°C					
Relative Humidity		0%~95% (Non-Condensing)					
Attitude		1000m output nominal power					
Noise at 1mm			< 56dB				
Inverter Efficiency		95%					
Degree of Protection		IP20					
PHYSICAL							
Weight (kgs)	Gross Weight	230	235	245	290		
e.giit (kgs)	Net Weight	210	215	225	270		
Dimension (mm)	Unit	696×60)3×1194	696×60.	3×1796		
D×W×H Packaging		830×703×1380 830×703×1980					

APPLICATION



Local Area Network (LAN)



Data Centre



Device

Storage PLCS



Devices



Emergency Alarm Devices



E-Business (Server Farms, ISP/ASP/POP)

REAR PANEL

- 1 User Interface
- 2 Inverter Module
- Inverter Module
- 4 PFC Module
- 6 PFC Module
- 6 Main Breaker
- Bypass Breaker
- Maintenance Breaker
- Output Breaker
- 10 Front Door



OPTION

• SNMP Card for data communication via network connection

LINE INTERACTIVE UPS

PRO SERIES



- 650VA/850VA/1KVA/1.5KVA line interactive UPS
- Built-in super smart charger, shorten 50% of charging time
 Excellent microprocessor control guarantees high reliability
 Boost and buck AVR for voltage stabilization

- Auto restart while AC is recovering
- Simulated sine wave
- Off-mode charging
- Cold start function
- \bullet Optional USB/RS-232 communication port and RJ-11/RJ-45 protection
- Offering LED and LCD panels for selections

FULL SPECIFICATIONS

MODELS		PRO700 (V/VU)	PRO850 (V/VR/SU)	PRO1200 (SV/SVU)	PRO1500 (V/VU)		
Capacity	Volt-Amp	650VA	850VA	1000VA	1500VA		
Сарасіту	Watt	360W	480W	600W	900W		
INPUT							
Voltage		110/120 VAC or 220/230/240VAC 220/230/240VAC 110/120 VAC or 220/230/240VAC					
Voltage Range		±25%					
Frequency Range			60/50Hz (A	auto-Sensing)			
OUTPUT							
AC Voltage Regulation	n (Battery Mode)		±	10%			
Frequency Range (Batt	tery Mode)		50Hz ±1Hz	or 60Hz ±1Hz			
Transfer Time			Typical 2-6 r	ms, 10ms max.			
Waveform (Battery Mo	ode)		Simulate	d Sinewave			
BATTERY							
Number & Type of Bat	ttery	1×12V7AH	1×12V10AH	2×12V7AH	2×12V9AH		
Typical Recharge time			4-6 hours recove	er to 90% capacity			
PROTECTION							
Full Protection			Overload, Discharge ar	nd Overcharge Protection			
INDICATION							
LED Display		Battery Mode - Yellow Lighting Charging Mode - Green Flashing every 2 seconds Overload - Red Flashing every 0.5 second Fault - Red Lighting Low Battery Alarm - Sounding every 2 seconds Overload Alarm - Sounding every 0.5 second Fault Alarm - Continuously Sounding					
ALARM							
Battery Mode			Sounding ev	ery 10 seconds			
Low Battery			Sounding (every second			
Overload			Sounding ev	rery 0.5 second			
Battery Replacement A	Alarm	Sounding every 2 seconds					
Fault			Continuou	sly Sounding			
PHYSICAL							
Dimension in MM (D×	H×W)	287×100	0×142	350×146×160	397×146×205		
Net Weight (kgs)		4.25	4.9	8	11.1		
ENVIRONMENT							
Humidity			0~90% Relative Humidity (@ 0~40°C (Non-Condensing)			
Noise Level			Less th	nan 40dB			
MANAGEMENT							
Optional USB / RS-232	2 Port	s	upport Windows® 2000/2003/XP/Vista	a/2008, Windows® 7, Linux, Unix and MAC			

APPLICATION







Work-Stations



INVERTER UPS

IPS SERIES



- \bullet 3 type of capacity model available: IPS500, IPS1000, IPS2000.
- Super efficient DC to AC conversion, minimizing charging losses.
- High frequency technology, provides critical overload protection.
- User selectable for accepting wider input voltage.
- Full automatic start operation and silent operation.
- Compact size for convenient use and storage.
- Small scale and cost effective inverter for home appliances and office equipment.
- Two steps intelligent charging control to reduce the recharging time.
- Eco-friendly and non-polluting (green device).

FULL SPECIFICATIONS

		IPS500	IPS1000	IPS2000	IPS3000 (P/R)	IPS5000 (R/L)
Capacity	Volt-Amp	500VA	1000VA	2000VA	3000VA	5000VA
capacity	Watt	300W	600W	1200W	2500W	4200W
INPUT						
Nominal Voltage				110/120VAC or 220/230/240VAC		
Acceptable	Narrow Range	90~145VAC or 170~280VAC				
Voltage Range	Wide Range			50~145VAC or 90~280VAC		
OUTPUT						
Nominal Voltage				120V or 230VAC		
Voltage Regulation				10% or -18% (Battery Mode)		
Frequency				50Hz or 60Hz		
Frequency Regulation				±0.1Hz (Battery Mode)		
Output Waveform				Modified Sinewave		
Transfer Time				10-20ms Typical, 40ms Max		
BATTERY						
Charging Current		8Amp ±1Amp	10Amp	±1Amp	20Amp	10/20Amp
DC Voltage		12V 24V		24V	24V/48V	48V/96V
Overcharge Protect		15V 30V		30V	30V/60V	60V/120V
INDICATION						
INDICATION LCD			NA		User Friendly	/ LCD Display
	AC Mode		NA Green Lighting		User Friendly	/ LCD Display
	Battery Mode		Green Lighting Yellow Lighting		User Friendly	r LCD Display
	Battery Mode Charging Mode		Green Lighting Yellow Lighting Green Flashing every 2 seconds		User Friendl <u>y</u>	/ LCD Display
LCD	Battery Mode Charging Mode Overload		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second			
	Battery Mode Charging Mode Overload Fault		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting			/ LCD Display
LCD	Battery Mode Charging Mode Overload Fault Low Battery Alarm		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds			
LCD	Battery Mode Charging Mode Overload Fault		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds Sounding every 0.5 second			
LED	Battery Mode Charging Mode Overload Fault Low Battery Alarm		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds			
LCD	Battery Mode Charging Mode Overload Fault Low Battery Alarm Overload Alarm		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds Sounding every 0.5 second			
LED GENERAL AC to AC Efficiency	Battery Mode Charging Mode Overload Fault Low Battery Alarm Overload Alarm		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds Sounding every 0.5 second	> 95%		
LED GENERAL AC to AC Efficiency DC to AC Efficiency	Battery Mode Charging Mode Overload Fault Low Battery Alarm Overload Alarm		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds Sounding every 0.5 second Continuously Sounding	> 95% > 80%	N	
LED GENERAL AC to AC Efficiency	Battery Mode Charging Mode Overload Fault Low Battery Alarm Overload Alarm		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds Sounding every 0.5 second Continuously Sounding	> 95%	N	
LED GENERAL AC to AC Efficiency DC to AC Efficiency	Battery Mode Charging Mode Overload Fault Low Battery Alarm Overload Alarm		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds Sounding every 0.5 second Continuously Sounding Discha 0~40°C,	> 95% > 80%	tections	
LED GENERAL AC to AC Efficiency DC to AC Efficiency Protection	Battery Mode Charging Mode Overload Fault Low Battery Alarm Overload Alarm		Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds Sounding every 0.5 second Continuously Sounding Discha 0~40°C, Less than 50dB	> 95% > 80% rge, Overcharge and Overload Pro 0~90°C relative humidity (Non-Co	tections ndensing)	
LED GENERAL AC to AC Efficiency DC to AC Efficiency Protection Environment	Battery Mode Charging Mode Overload Fault Low Battery Alarm Overload Alarm Fault Alarm	2.0	Green Lighting Yellow Lighting Green Flashing every 2 seconds Red Flashing every 0.5 second Red Lighting Sounding every 2 seconds Sounding every 0.5 second Continuously Sounding Discha 0~40°C,	> 95% > 80% rge, Overcharge and Overload Pro	tections ndensing)	iA

Note: Product specifications are subject to change without prior notice.

- Indications:
 "P" represents 24VDC
 "R" represents 48VDC
 "L" represents 96VDC

REAR PANEL

- 1 Battery 12V, 24V, 48V, 96V
- 2 Input Protector
- Input Socket
- Output Socket
- 6 Narrow/Wide Selector





PDC SERIES- DC UPS



- Dual DC Outputs
- Microprocessor controlled guarantees high reliability
- Compact size for standing and mounting flexibility
- Supports solar powered devices and communication applications
- Auto restart while AC is recovering
- Off-mode charging
- Overload protection and short circuit protection

MODEL	PDC 50	
Capacity	50W	
INPUT		
Voltage	110VAC or 220VAC	
Voltage Range	80~140VAC or 160~280VAC	
Frequency Range	60Hz or 50Hz	
OUTPUT		
Output Voltage	12VDC	
Output Voltage Regulation	10V~13.7V	
Transfer Time	0ms	
EFFICIENCY		
AC Mode	>75%at Nominal Voltage (Battery Fully Charged)	
Battery Mode	>95%at Full Load	
BATTERY		
Battery Type	12V9AH×1	
Charging Voltage	13.7V ±0.25V	
Charging Current	2.8A or 2.3A at Nominal Voltage without Load	
Typical Recharge Time	4~6 hours recover to 90%capacity	
INDICATORS		
AC Mode	Green Lighting	
Battery Mode	Yellow Lighting	
Low Battery	Yellow Flashing	
Fault	Red Lighting	
PROTECTION		
Full Protection	Short Circuit and Overload Protection	
PHYSICAL		
Dimension (mm) D×W×H @ Vertically Stand	228×82.5×207	
Net Weight (kgs)	3	
OPERATING ENVIRONMENT		
Humidity	0~90%	
Temperature	0°C~40°C	

PCC SERIES



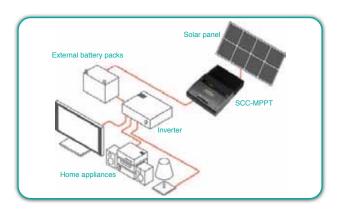
PCC Series Models:

- Intelligent Maximum Power Point Tracking technology
- Built-in DSP controller with high performance
- Automatic battery voltage detection
- Three-stage charging optimizes battery performance
- · Auto load-detection
- Multifunction LCD displays detailed information
- Reverse polarity protection of solar panel and battery
- Overcharge and overload protection
- IP 43 protection for outdoor and harsh environment #1
- IP 21 protection #2
- Suitable for battery types of sealed lead acid, vented Gel, and NiCd
- Standard RJ45 port or optional RS-485 communication port for remote monitoring

STANDALONE SOLAR POWER SYSTEM

Combined MPPT technology and DSP controller, PCC Series will convert best voltage to charge battery based on varied temperature. Compared to traditional solar charge controller, it allows your solar panels to operate at their optimum power output voltage, providing higher efficiency up to 97.8%with lower power loss.

Integrated PCC Series with inverter, solar panel, and external battery packs, it will become a standalone solar power system to generate green power for your home appliances. PCC Series will convert solar power to charge external batteries, and then provide power to home appliances via inverter.



MODEL	PCC 300	PCC 600	PCC 3000
Capacity	300W	600W	3000W
INPUT			
MPPT Range @ Operating Voltage	15~33V @ 12V	30~66V @ 24V	60~132VDC
Maximum PV Array Open Circuit Voltage	50V	75V	150VDC
Maximum Current	18/	A	45A
ОИТРИТ			
Nominal Battery Voltage	12V	24V	48V
Connected Battery Type		Sealed Lead Acid, Vented, Gel, NiCd Battery	
Maximum Charging Current	25/	A	60A
Ripple Voltage		<±1V	
Maximum Efficiency	97.8	8%	98%
Standby Power Consumption	1W	2W	1
Charging Method		Three Stages: Bulk, Absorption & Floating	
PROTECTIONS			
Overload Protection	> 110%: Audiable Alarm		Yes
Overcharge Protection			
Polarity Reversal Protection @ Solar Cell & Battery		Yes	
INDICATORS			
LCD Panel	LCD Panel indica	ating Solar Power, Output Power, Battery Voltage, Char and Fault Conditions	rging Current,
	Three indiators:		Three indicators:
LED Display	Solar, Charging	& Load Status	Solar, Battery & Wiring Fault
PHYSICAL			
Dimension (mm) D×W×H	135×170×57.5	220×170×57.5	180×210×80
Net Weight (kgs)	0.92kgs	1.85kgs	1.28
Connector		Input or Output Terminal Block	
Type of Mechanical Protection	IP43		IP21
ENVIRONMENT			
Humidity		0~90% Relative Humidity (Non-Condensing)	
Operating Temperature		-20°C to 55°C	
Storage Temperature		-40°C to 75°C	
Altitude	0~3000m		



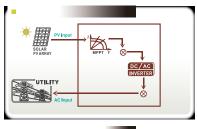


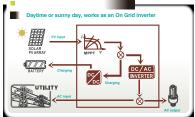
PSI HYBRID SERIES

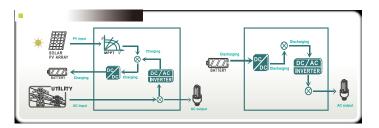


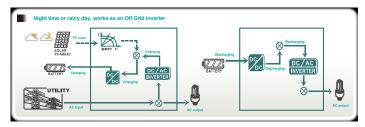
- 3KW hybrid inverter
- Pure sine wave output
- Microprocessor controlled to guarantee stable charging system
- Multiple operations: Grid tie, Off grid, and grid-tie with backup
- Built-in MPPT solar charger
- LCD display panel for comprehensive information
- Multiple communication
- Green substitution for generators
- User-adjustable charging current up to 25A

MULTIPLE OPERATIONS









MODEL	HYBRIDE 3K
Capacity	3000W
DC INPUT	
Maximum DC Voltage	500VDC
MPP Voltage Range	110VDC~450VDC
DC Nominal Voltage	360VDC
Start-up Voltage / Initial Feeding Voltage	125VDC / 125VDC
Maximum Input Current	13A
GRID / UTILITY INPUT (AC)	
Nominal AC Voltage	220VAC
Acceptable Voltage Range	170~280VAC
Maximum Input Current	20A
GRID OUTPUT (AC)	
Nominal AC Voltage / Range	220VAC / 184~265VAC
Maximum Feeding Power	3000W
AC Grid Frequency Range	47.5~50.2Hz
Nominal Output Current	13A
Power Factor	>0.99
BATTERY MODE OUTPUT (AC)	
Output Voltage	220VAC
Output Frequency	50Hz
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	90%
BATTERY & CHARGER	
Nominal DC Voltage	48VDC
Maximum Charging Current	25A
PHYSICAL	
Dimension (mm) D×W×H	420×415×170
Net Weight (kgs)	15.5
INTERFACE	
Communication Port	RS-485 / RS-232
Intelligent Slot	Optional SNMP Card and Modbus Card available
Wireless Connection	Optional Zigbee Card and Wireless device available
ENVIRONMENT	
Humidity	0~90% Relative Humidity (Non-Condensing)
Operating Temperature	-25°C to 60°C
Altitude	0~1000m (Power derating 1%every 100m when altitude is over 1000m)





PSI ON-GRID SERIES



- 1.5KW/2KW/3KW/5KW & 3-phase 10KW on-grid PV inverter
- Advanced DSP control technology delivers accurate data
- Smart MPPTs to enhance overall efficiency
- Up to 96% high conversion efficiency for 1.5KW-5KW and 98% for 10KW
- Modulized design for easy maintenance
- Industrial-grade components used for robust operation
- Data log up to 15 years
- IP 65 protection for outdoor and harsh environment
- Comprehensive LCD monitor for easy-reading
- 5-year product warranty
- Free monitoring software

MODEL	AMNETZ 1500	AMNETZ 2000	AMNETZ 3000	AMNETZ 5000	AMNETZ 10K		
Capacity Watt	1500W	2000W	3000W	5000W	10000W		
Phase		1 Phase-In 1 Phase-Out 3 Phase-In					
INPUT (DC)							
Maximum DC Power	1650VDC	2200W	3200W	5300W	11000VDC		
Maximum DC Voltage	450VDC	500VDC	500VDC	500VDC	900VDC		
MPP Voltage range	150~450VDC	200~450VDC	150~4	50VDC	320~800VDC		
Nominal DC Voltage	360'	VDC	370	VDC	600VDC		
Start-up Voltage / Initial Feeding Voltage	125/1	50VDC	116/1	50VDC	250/250VDC		
Maximum Input Current / Per String	1×11A	A / 11A	2×10A / 10A	2×16A / 16A	2×17A / 17A		
Number of MPP Trackers / String per MPP Trackers	cker 1/	A:1		2 / A:1, B:1			
OUTPUT (AC)							
AC Nominal Power	1500W	2000W	3000W	5000W	10000W		
Maximum AC Apparent Power	1500VA	2000VA	3000VA	5000VA	10000VA		
Nominal AC Voltage	230VAC	230VAC	230VAC	230VAC	3/N/PE, 230/400VAC		
AC Voltage Range			-20%~+15%				
AC Grid Frequency			50Hz				
AC Grid Frequency Range		47.5~50.2Hz					
Nominal Output Current	6.9A	9.1A	13A	21.7A	14.5A		
Power Factor		>0.99 >0.89					
EFFICIENCY							
Maximum Efficiency	96.	.0%	96	5%	98.0%		
Maximum Efficiency @ Nominal Voltage & 100% Lo	95.0%		95	.5%	97.0%		
PROTECTION							
DC Reverse-Polarity Protection			Yes				
Ground Fault Monitoring		Yes					
Grid Monitoring		Yes					
AC Short Circuit Protection			Yes				
PHYSICAL							
Dimension (mm) D×W×H (without Wheels)	146.5 × 28	3.6 × 398.6	144 × 266 × 466	158 × 303 × 520	171.2 × 503.5 × 653.3		
Net Weight (kgs)	1	.1	20.5	25.0	40		
INTERFACE							
Intelligent Slot	USB Card / Optional : SNMP, RS-23.	2, ModBus, AS-400 and GPRS Cards	ModBus Card / O	otional : SNMP, RS-232, USB, AS-	400 and GPRS Cards		
ENVIRONMENT							
Humidity		0~100	% Relative Humidity (Non-Conde	ensing)			
Operating Temperature		-25~60°C -25~55°C -25~60°C					
Altitude		0~1000m (Power d	erating 1%every 100m when altit	ude is over 1000m)			
COMPLIANCE							
Quality		ISO9001/ISO14001					
Standard		CE, VDE 0126-1-1, IEC62109, ENEL Guide 2009, RD 1663, G83/1-1, AS3100/AS4777					





PSI OFF-GRID SERIES



- DSP plus microprocessor redundant controllers guarantee high reliability
- Pure sine wave output
- Multiple power sources: Solar power, AC main, 48V DC battery
- Built-in MPPT tracker
- Isolation design between inverter and battery for safety guarantee
- Smart LCD display electricity generated, recorded up to 15 years
- Provides multiple communication ports for remote monitoring with software
- Standard RS-232/USB ports and optional Modbus, SNMP, GPRS communication, and AS400 dry contact are available
- User-adjustable charging current up to 25A
- High efficiency: Solar panel to AC output peak efficiency 95.5%
- \bullet High efficiency: Battery to AC output peak efficiency 92%
- Option: On-Grid

MODEL	OFFNETZ 2000	OFFNETZ 3000		
Capacity	2000W	3000W		
PV INPUT (DC)				
Maximum DC Voltage	500VDC	500VDC		
Work Voltage Range	100~500VDC	100~500VDC		
Full Load MPP Voltage Range	170~450VDC	250~450VDC		
Maximum Input Current	13	BA		
AC INPUT				
Nominal AC Voltage	100/110/120/127VAC	208/220VAC or 230/240VAC		
Acceptable Voltage Range	85~125VAC	175~265VAC or 175~280VAC		
Acceptable Frequency Range	57.5~62.5Hz	47.5~52.2Hz		
Maximum Input Current	31A	20A		
BATTERY MODE OUTPUT (AC)				
Output Voltage	100/110/120/127VAC	208/220VAC or 230/240VAC		
Output Frequency	60Hz	50Hz		
Output Waveform	Pure Si	newave		
THDv	<3% @ Li	near Load		
Power Factor	>0	.99		
Efficiency (DC to AC)	90%	92%		
Overload Capability	>110% : 5mins; >150% :	1min; 200% : immediately		
BATTERY & CHARGER				
Nominal DC Voltage	48V	/DC		
Maximum Charging Current	25A			
PHYSICAL				
Dimension (mm) D×W×H (without Wheels)	420 × 43	15 × 170		
Net Weight (kgs)	15	5.5		
INTERFACE				
Communication Port	RS-232	2 / USB		
Intelligent Slot	Optional SNMP Card, ModBus Card, C	Optional SNMP Card, ModBus Card, GPRS Card, and AS-400 Card available		
ENVIRONMENT				
Humidity	0~90% Relative Humio	dity (Non-Condensing)		
Operating Temperature	0~4	10°C		
Altitude	0~1000m (Power derating 1%every	100m when altitude is over 1000m)		



STANDALONE SOLAR POWER STATION

Power Your TV, Fan, and Lighting running 3.5 hours at very low cost

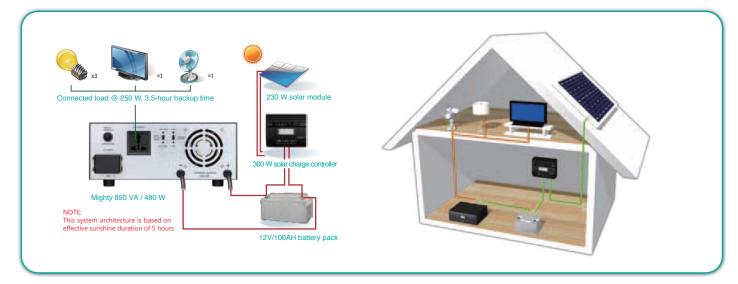
- Easy installation: No technician need
- Low cost
- Unlimited and clean power source from sun

This low cost solar power station consists of a solar charge controller, one inverter, one solar module, and one external battery pack. Compared with generator, this solar power station provides clean power and cheaper operation cost.

If expecting to run 1 TV, 1 Fan, 3 Lamps for 3.5 hours based on effective sunshine duration of 5 hours per day, the whole solar power station consist of one 300W solar charge controller, one 230W solar panel, one 850VA inverter, and one 12V/100AH battery. And no cost for fuel as sun light is free. Much lower cost compare with run by generator.



SYSTEM ARCHITECTURE



OVERVIEW OF PACKAGE CONTENTS









- (A) 1×Solar Module 230W
- (B) 1×Solar Controller 300W
- (C) 1×Battery Pack 12V100AH
- (D) 1×Mighty Inverter 850VA / 480W

SUITABLE APPLIANCES:

- Lighting
- TV
- Computer
- Fan
- Mobile phone
- etc

WHY USING SOLAR POWER STATION INSTEAD OF GENERATOR?

- Lower cost than using generator; zero operation cost.
- No pollution, no noise.

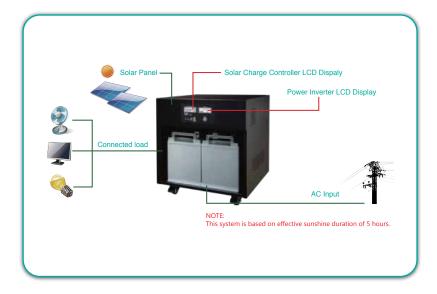




PSS SERIES



- Easy installation: No technician need
- Low cost
- Unlimited and clean power source from sun
- Expandable based on project need



MODEL		SONNENSYS 850	SONNENSYS 1500	SONNENSYS 1500 PRO		
Capacity Volt-Amp		850VA	1:	500VA		
Watt		480W	1050W			
INPUT (AC)						
Voltage		120VAC or 230VAC	23	30VAC		
Selectable	For PCs	95~145VAC or 180~260VAC	180-	~260VAC		
Voltage Range	For Home Appliances	50~160VAC or 100~300VAC	100-	~300VAC		
Frequency Range			50/60Hz (Auto-Sensing)			
OUTPUT (AC)						
AC Voltage Regulation	(Battery Mode)	100~120VAC ±5% or 200~230VAC ±5%	200~230VAC ±5%	230VAC ±5%		
Transfer Time			20ms Yypical			
Waveform (Battery Mo	ode)	Simulated	Sinewave	Pure Sinewave		
SOLAR CHARGER						
MPPT Range @ Opera	ting Voltage	15~33 VDC	30	0~66V		
Maximum PV Array O	oen Circuit Voltage	50VDC	7	75VDC		
Maximum PV Array Po	wer	300W	(600W		
Maximum Charging C	urrent		18A			
BATTERY						
Numbers & Type of B	attery	1×12V100AH	2×12V100AH			
Battery Voltage		12VDC	24VDC			
Floating Charge Volta	ge	13.7VDC ±2%	27.4VDC ±2%			
Low Battery Alarm Vol	tage	10.2VDC ±2%	20.4VDC ±2%			
Shutdown Voltage		9.9VDC ±2%	19.8	VDC ±2%		
Overcharge Protection	1	15.0VDC ±2%	30.00	VDC ±2%		
Maximum Charging C	urrent	35A (10A AC Charger + 25A Solar Charger) or 45A (20A AC Charger + 25A Solar Charger)				
PROTECTION						
Full Protection			Overload & Short Circuit Protection			
ALARM						
Low Battery		Sounding every second				
Overload		Sounding every 0.5 second				
Battery Replacement		Sounding every 2 seconds				
Fault		Continuously Sounding				
PHYSICAL						
Dimension (mm) D×W×H (without Wheels)		480 × 250 × 450	480 × 420 × 420			
Net Weight (kgs)		53	92	94		
OPERATING ENVIRO	NMENT					
Humidity			0~90% Relative Humidity (Non-Condensing)			
T	Operating	0~50°C				
Temperature	Storage	-15~70°C				



SOFTWARE & ACCESSORIES

VIEWPOWER - UPS MANAGEMENT SOFTWARE



- Allows control and monitoring of multiple UPSs via LAN and INTERNET
- User-friendly power analysis graphs
- Real-time dynamic graphs of UPS data
- Safely OS shutdown and protection from data loss during power failure
- \bullet Warning notifications via audible alarm, broadcast, mobile messenger, and e-mail
- Scheduled UPS on/off, battery test, programmable outlet control, and audible alarm control
- Password security protection and remote access management
- Supports multiple OS and local languages

SOLAR POWER PRO - PV SYSTEM MONITORING SOFTWARE



SolarPower Pro is a solar inverter monitoring software to monitor up to 247 devices via modbus interface. It also provides web browser capability in a networked environment. The major functions of SolarPower Pro monitoring software include data log for device, power generation statistics, alarm messages, fault messages, and parameter setting for devices.

- · Allows control and monitoring of multiple devices via LAN and INTERNET
- Automatic and real-time data acquisition of devices and secured data log saving
- · Graphic display of device data for quick and easy reading
- Warning notifications or fault alarms via audible alarm, pop-up screen, broadcast, mobile messenger, tray message and e-mail
- Easy diagnosis from event statistics and amount calculation for energy savingl
- Maximum data log up to 10 billion records
- Supports online upgrade and manually upgrade
- Supports multiple languages: English, Chinese, French, German, Spanish, Russian, Portuguese, Ukrainian, Italian, Polish

SNMP CARD



(Integrated with ViewPower Pro software)

- Allows control and monitoring of multiple UPSs through RJ-45 network connection
- Real-time dynamic graphs of UPS data (voltage, frequency, load level, battery level)
- Warning notifications via audible alarm, broadcast, mobile messenger, e-mail and SNMP traps
- Historic data log stored in centralized PC database
- Simple firmware upgrade with one click
- Password security protection and remote access management
- \bullet Supports optional environmental monitoring detector for temperature, humidity and smoke
- 2-year product warranty

SOLARVIEW - REMOTE MONITORING DEVICE



SolarView is a remote monitoring device to guarantee comprehensive control on the whole solar system. It keeps you clearly informed about the operation status and valuable yields of solar system. It also presents the data simple, easy-reading and professionally.



ccessorie

AS-400 CARD



- Capable of selection the status of the dry-contact signal by setting jumper to meet different application requirements.
- Suitable applications: IBM Server, Personal PC & Workstations equipments, Auto-controlled industrial equipment & communication applications

RS-232 C∧RD



- RS-232 Card provides a UPS with a RS232 Serial Interface.
- RS-232 Port allows the UPS to communicate with supporting management such as Windows, Linux, Unix and MAC operating systems.

MODBUS CARD



The ModBus Card provides UPS and PV inverter systems with the functionality of communication with PCs through ModBus Protocol:

- Implements ModBus RTU Protocol
- Provides ModBus functions including read Holding Registers and write Registers
- Provides RS232 and RS485 interface

RACKMOUNT SLIDER



• Simple installation for mounting PROLiNK rack mount UPS System in your server rack enclosure.

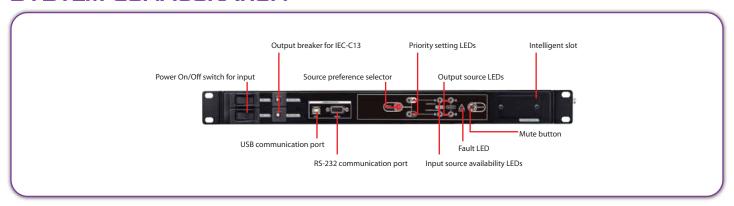
SOFTWARE & ACCESSORIES

AUTOMATIC TRANSFER SWITCH (ATS)



- 16A max. input current
- Powered by two separately independent power sources
- Dual power supply for redundancy
- \bullet Provides seamless power switch for IT equipment
- Preferred source selection on front panel
- Highly reliablity 19" rack design (1U) to fit into a diverse working environment
- Built-in USB and RS-232 communications

SYSTEM CONFIGURATION



SELECTION GUIDE

MODEL	ATS
Current Rating	16A
INPUT	
Input Voltage	230VAC
Acceptable Input Voltage	207~253VAC
Input Frequency	50Hz / 60Hz
OUTPUT	
Output Voltage	230VAC
Maximum Output Current	10A for IEC-C13 Outlets 16A for IEC-C19 Outlets
CONNECTION	
Input	2×IEC-C20 Inlets
Output	8×IEC-C13 1×IEC-C19
Communication	USB / RS-232
Transfer Time	9~12ms (Typical)
PHYSICAL	
Dimension (mm) D×W×H	310×430×44
Net Weight (kgs)	3.65
ENVIRONMENT	
Operating Temperature	20~95% Relative Humidity @ -5°C~45°C (Non-Condensing)

SOFTWARE & ACCESSORIES

PDU & MAINTENANCE BYPASS SWITCH



- 16A for 208/220/230/240 VAC, 20A for 110/115/120/127 VAC
- Provides continuous power to connected equipment during UPS maintenance
- Easy operation with simple rotary switch and indicators
- Master-slave function for energy saving
- Provides a large number of sockets for extended usage
- Provides rack and tower designs to fit into a diverse working environment
- Simple installation with plug-and-play socket type
- Suitable for all UPSs up to 3KVA

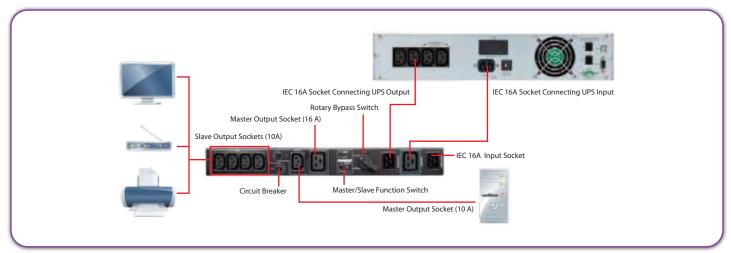






UK Schuko

SYSTEM CONFIGURATION



SELECTION GUIDE

MODELS		Rack Type	Tower Type					
Current Rating		The state of the s	16A Max. for 208/220/230/240 VAC 20A Max. for 110/115/120/127 VAC					
Voltage Rating		208/220/230/240 VAC or	- 110/115/120/127 VAC					
Master/Slave Function	1	Yes. When power consumption in Master Outlet is lower than 20W (±5W), it will shut off the power for slave outlets.	NA					
CONNECTION								
	AC Power	1×IEC (16A) Connector & 1	×Customized Plug Cable					
Input	UPS Input	1×IEC (16A) Connector 8: 1×Cable (16A - 10A II	1×IEC (16A) Connector & 1×Cable (16A~10A IEC Cable for 1k/2k, 16A~16A IEC cable for 3k)					
	UPS Output	TAILE (10A) Connector & TACABLE (10A*10A IEC CABLE TOLTA)						
	IEC	5×IEC 10A Sockets + 1×IEC 16A Socket (with 2 circuit breakers)	8×IEC 10A Sockets + 1×IEC 16A Socket (with 2 circuit breakers)					
Outnot	Schuko	4×Schuko 16A Sockets						
Output	UK	4×UK 13A Sockets						
	NEMA	5×NEMA 20A Sockets	6×NEMA 20A Sockets					
PHYSICAL								
	IEC	80×438×50	180×160×50					
Dimension (mm)	Schuko	80×438×60	180×200×50					
D×W×H	UK	0U^436×0U	190~200×30					
NEMA		80×438×50	180×160×50					
Net Weight (kgs) 1.50 1.30			1.30					
ENVIRONMENT								
Operating Temperatur	re	20~90% Relative Humidity @ 0°C~40°C (Non-Condensing)						

APPENDIX

UPS BATTERY BACKUP CONFIGURATION LIST

1. ONLINE - PROFESSIONAL SERIES (1P/1P) - TOWER

MODEL	DC Battery Group	30 Minutes Quantity	60 Minutes Quantity	120 Minutes Quantity	180 Minutes Quantity	240 Minutes Quantity	Remark
PRO901L	2/24VDC	C1×1 12V40AH×2	C2×1 12V40AH×4	C4×1 12V65AH×4	C6×1 12V40AH×12	C8×1 12V65AH×8	
PRO902L	4/48VDC	C4×1 12V40AH×4	C4×1 12V40AH×8	C8×1 12V65AH×8	C12×1 12V40AH×24	C16×1 12V65AH×16	Without cable from UPS system to
PRO903L	6/72VDC	C3×1 12V40AH×6	C6×1 12V40AH×12	C6×1 12V100AH×6	C20×1 12V40AH×36	C20×1 12V100AH×18	battery bank. 2. All batteries supply
PRO906L	8/96VDC	C8×1 12V26AH×16	C16×1 12V26AH×32	C24×1 12V65AH× <i>24</i>	C12×1 12V40AH×48	C24× <i>2</i> 12V65AH×48	are without battery cables.
PRO906LI #1	8/96VDC	C8×1 12V26AH×16	C16×1 12V26AH×32	C24×1 12V65AH×24	C12×1 12V40AH×48	C24×2 12V65AH×48	

2. ONLINE - MASTER SERIES (1P/1P) - TOWER

MODEL	DC Battery Group	30 Minutes Quantity	60 Minutes Quantity	120 Minutes Quantity	180 Minutes Quantity	240 Minutes Quantity	Remark
PRO801L	3/36VDC	C1×1 12V26AH×3	C3×1 12V26AH×6	C2×1 12V38AH×3	C12×1 12V26AH×18	C3×1 12V38AH×6	
PRO815L	3/36VDC	C2×1 12V40AH×3	C3×1 12V40AH×6	C3×1 12V100AH×3	C12×1 12V40AH×18	C6×1 12V100AH×6	
PRO802L	6/72VDC	C3×1 12V26AH×6	C6×1 12V26AH×12	C6×1 12V65AH×6	C20×1 12V26AH×36	C12×1 12V65AH×12	7
PRO803L	6/72VDC	C3×1 12V40AH×6	C6×1 12V40AH×12	C6×1 12V100AH×6	C20×1 12V40AH×36	C12×1 12V100AH×12	1
PRO806L	20/240VDC	C12×1 12V26AH×20	C4×2 12V18AH×40	C20×1 12V26AH×40	C32×1 12V40AH×60	C20×2 12V65AH×40	1
PRO806LI #1	20/240VDC	C12×1 12V26AH×20	C4×2 12V18AH×40	C20×1 12V26AH×40	C32×1 12V40AH×60	C20×2 12V65AH×40	Without cable from UPS system to battery bank.
PRO806CL	20/240VDC	C12×1 12V26AH×20	C4×2 12V18AH×40	C20×1 12V26AH×40	C32×1 12V40AH×60	C20×2 12V65AH×40	All batteries supply are without battery cables.
PRO806CLI #1	20/240VDC	C12×1 12V26AH×20	C4×2 12V18AH×40	C20×1 12V26AH×40	C32×1 12V40AH×60	C20×2 12V65AH×40	- casies
PRO810L	20/240VDC	C12×1 12V40AH×20	C20×1 12V40AH×40	C20×2 12V65AH×40	C20×3 12V40AH×120	C20×2 12V100AH×40	
PRO810LI #1	20/240VDC	C12×1 12V40AH×20	C20×1 12V40AH×40	C20×2 12V65AH×40	C20×3 12V40AH×120	C20×2 12V100AH×40	
PRO810CL	20/240VDC	C12×1 12V40AH×20	C20×1 12V40AH×40	C20×2 12V65AH×40	C20×3 12V40AH×120	C20×2 12V100AH×40	1
PRO810CLI #1	20/240VDC	C12×1 12V40AH×20	C20×1 12V40AH×40	C20×2 12V65AH×40	C20×3 12V40AH×120	C20×2 12V100AH×40]

3. ONLINE - MASTER SERIES (1P/1P) - 2-IN-1 RACK/TOWER

MODEL	DC Battery Group	30 Minutes Quantity	60 Minutes Quantity	120 Minutes Quantity	180 Minutes Quantity	240 Minutes Quantity	Remark
PRO801RL	2/24VDC	C1×1 12V40AH×2	C2×1 12V40AH×4	C3×1 12V100AH×2	C6×1 12V40AH×12	C4×1 12V100AH×4	
PRO815RL	3/36VDC	C3×1 12V65AH×3	C6×1 12V65AH×6	C3×1 12V100AH×3	C20×1 12V65AH×18	C6×1 12V100AH×6	
PRO802RL	4/48VDC	C2×1 12V40AH×4	C4×1 12V40AH×8	C4×1 12V100AH×4	C12×1 12V40AH×8	C8×1 12V100AH×8	Without cable from UPS system to battery bank.
PRO803RL	6/72VDC	C3×1 12V40AH×6	C6×1 12V40AH×12	C6×1 12V100AH×6	C20×1 12V40AH×36	C12×1 12V100AH×12	All batteries supply are without battery cables.
PRO806RL	20/240VDC	C12×1 12V26AH×20	C20×1 12V26AH×40	C20×1 12V65AH×20	C32×1 12V26AH×120	C20×2 12V65AH×40	
PRO810RL	20/240VDC	C12×1 12V40AH×20	C20×1 12V40AH×40	C20×1 12V100AH×20	C32×1 12V40AH×120	C20×2 12V100AH×40	1

APPENDIX

4. ONLINE - MASTER SERIES (3P/IP) - TOWER

MODEL	DC Battery Group	30 Minutes Quantity	60 Minutes Quantity	120 Minutes Quantity	180 Minutes Quantity	240 Minutes Quantity	Remark
PRO83110L	20	C12×1 12V40AH×20	C20×1 12V40AH×40	C20×2 12V65AH×40	C32×2 12V40AH×120	C20×2 12V100AH×40	
PRO83110LI **1	20	C12×1 12V40AH×20	C20×1 12V40AH×40	C20×2 12V65AH×40	C32×2 12V40AH×120	C20×2 12V100AH×40	
PRO83115L	20	C20×1 12V26AH×40	C20×2 12V26AH×80	C20×2 12V100AH×40	C32×4 12V26AH×240	C20×4 12V100AH×80	Without cable from UPS system to battery bank.
PRO83115LI #1	20	C20×1 12V26AH×40	C20×2 12V26AH×80	C20×2 12V100AH×40	C32×4 12V26AH×240	C20×4 12V100AH×80	All batteries supply are without battery cables.
PRO83120L	20	C20×1 12V40AH×40	C20×2 12V40AH×80	C20×2 12V100AH×40	C32×4 12V40AH× <i>240</i>	C20× <i>4</i> 12V100AH× <i>80</i>	cables.
PRO83120LI #1	20	C20×1 12V40AH×40	C20×2 12V40AH×80	C20×2 12V100AH×40	C32×4 12V40AH× <i>240</i>	C20×4 12V100AH×80	

5. ONLINE - MASTER SERIES (3P/1P) - RACKMOUNT

MODEL	DC Battery Group	30 Minutes Quantity	60 Minutes Quantity	120 Minutes Quantity	180 Minutes Quantity	240 Minutes Quantity	Remark
PRO93110L	20	C12×1 12V40AH×20	C20×1 12V40AH×40	C20×2 12V65AH×40	C32×2 12V40AH×120	C20×2 12V100AH×40	Without cable from UPS system to battery bank.
PRO93120L	20	C20×1 12V40AH×40	C20×2 12V40AH×80	C20×2 12V100AH×40	C32×4 12V40AH×240	C20×4 12V100AH×80	All batteries supply are without battery cables.

6. ONLINE - MASTER SERIES (3P/3P) - TOWER

MODEL	DC Battery Group	30 Minutes Quantity	60 Minutes Quantity	120 Minutes Quantity	180 Minutes Quantity	240 Minutes Quantity	Remark
PRO83310L	20	C4×1 12V18AH×20	C20×1 12V26AH×20	C20×1 12V100AH×20	C32×1 12V26AH×60	C20× <i>2</i> 12V100AH× <i>4</i> 0	
PRO83310LI #1	20	C4×1 12V18AH×20	C20×1 12V26AH×20	C20×1 12V100AH×20	C32×1 12V26AH×60	C20× <i>2</i> 12V100AH× <i>40</i>	Without cable from
PRO83315L	20	C12×1 12V40AH×20	C12×2 12V40AH×40	C20×2 12V65AH×40	C32×2 12V40AH×120	C20×4 12V65AH×80	UPS system to battery bank.
PRO83315LI #1	20	C12×1 12V40AH×20	C12×2 12V40AH×40	C20×2 12V65AH×40	C32×2 12V40AH×120	C20×4 12V65AH×80	All batteries supply are without battery cables.
PRO83320L	62	C12×1 12V40AH×20	C12×2 12V40AH×40	C20×2 12V100AH×40	C32×2 12V40AH×120	C20×4 12V100AH×80	
PRO83320LI #1	20	C12×1 12V40AH×20	C12×2 12V40AH×40	C20×2 12V100AH×40	C32×2 12V40AH×120	C20×4 12V100AH×80	

7. ONLINE - POWER SERIES (3P/3P)

MODEL	DC Battery Group	30 Minutes Quantity	60 Minutes Quantity	120 Minutes Quantity	180 Minutes Quantity	240 Minutes Quantity	Remark
PRO73315L	62	C32×1 12V26AH×62	C32×2 12V26AH×124	C32×2 12V65AH×62	C32×6 12V26AH×372	C32×4 12V65AH×124	
PRO73320L	62	C32×1 12V40AH×62	C32×2 12V40AH×124	C32×2 12V100AH×62	C32×6 12V40AH×372	C32×4 12V100AH×124	
PRO73330L	62	C32×1 12V40AH×62	C32×2 12V40AH×124	C32×2 12V100AH×62	C32×6 12V40AH× <i>372</i>	C32×4 12V100AH×124	Without cable from UPS system to battery bank.
PRO73340L	62	C32×1 12V65AH×62	C32×2 12V65AH×124	C32×4 12V65AH×124	C32×6 12V65AH×372	C32×8 12V65AH×248	All batteries supply are without battery cables.
PRO73360L	62	C32×2 12V100AH×62	C32×4 12V100AH×124	C32×4 12V100AH×124	C32×12 12V100AH×372	C32×8 12V100AH× <i>248</i>	
PRO73380L	62	C32×2 12V120AH×62	C32×4 12V120AH×124	C32×4 12V100AH×124	C32×12 12V120AH×372	C32×8 12V100AH× <i>24</i> 8	

APPENDIX

BATTERY CONFIGURATIONS

BATTERY	CABINET		Availab	ole Battery Q	uantity		12V7AH or	Cabinet Weight	Remark			
MODEL	DIMENSION (mm)	100AH	65AH	38AH	24AH	17AH	12V9AH or 10AH	Cabillet Weight	Remark			
C1	435×210×270	1	1	2	3	5	/	3.5kg				
C2	450×470×320	1	2	4	4	10	/	6kg				
C3	585×470×320	3	3	6	6	14	/	8kg				
C4	450×470×615	4	4	8	8	20	/	18kg				
C6	585×470×615	6	6	12	12	28	/	22kg	1. Install 100AH Battery & Cables			
C8	780×470×615	8	8	16	16	36	/	25kg	2. Exclude Switch for Offline/Online 1-20K			
C12	780×470×900	12	12	24	24	/	/	32kg	Online Power Series, but include Cable but without Switch.			
C16	780×470×1190	16	16	32	32	62	/	45kg	but without switch.			
C20	950×470×1190	20	20	40	40	/	/	45kg				
C24	1150×470×1190	24	24	/	/	/	/	75kg				
C32	780×880×1190	32	32	62	62	/	/	95kg				
G6							6					
G12							12					
G18							18					
G60							60		Completed Assembled			
G8R							8		1			
G12R							12					
G20R							20					

NOTES

NOTES

NOTES



SINGAPORE Office

FIDA INTERNATIONAL (S) PTE LTD
Block 16 Kallang Place #06-02, Kallang Basin Industrial Estate, Singapore 339156.
Tel: +65 6357 0668 Email: sales@fida.com

MALAYSIA Office

FIDA SYSTEMS (M) SDN BHD

29 Jalan USJ 1/31, 47600 Subang Jaya, Selangor Darul Ehsan, Malaysia.

Tel: +60 3 8024 9151 Email: sales@prolink2u.com

INDONESIA Office

PT PROLINK INTIDATA NUSANTARA

Jl. Cideng Barat No. 79, Jakarta Pusat 10150, Indonesia. Tel: +62 21 3483 1777 Email: sales@prolink.co.id

VIETNAM Office PROLINK VIETNAM

569 Tran Hung Dao str - 3 Floor, TKT Building, Cau Kho wards , District 1 - Ho Chi Minh City , Vietnam.

Technical Support Hotline

SINGAPORE : +65 6357 0666 MALAYSIA : +60 3 8023 9151 INDONESIA : +62 21 3483 1717 VIETNAM : +84 942 274 727



